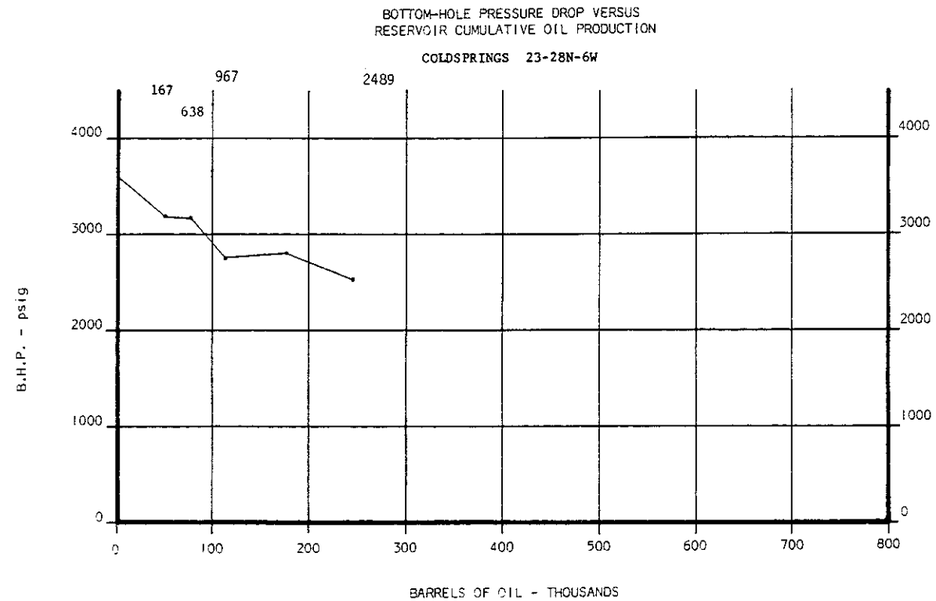
BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: COLDSPRINGS 24-28N-6W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5340 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 4, 1983						
Fawcett 4A-24	3-83	115.5	6813 TVD	3708	.559	3610	3657	11-28-82	-47	1503	2058
					AUGUST 26, 1983						
Fawcett 2A-13	8-83	64	6796 TVD	3524	.326	3467	3610	4-3-83	-143	1725	
					OCTOBER 24, 1983						
Little Twin 1-13B	11-82	67	6779 TVD	3424	.273	3377	3467	8-26-83	-90	1753	
					FEBRUARY 16, 1984						
Fawcett 1-24	4-74	NA	6980	3304	.540	3143	3377	10-24-83	-234	--	

REMARKS:



STATE OF MICHIGAN

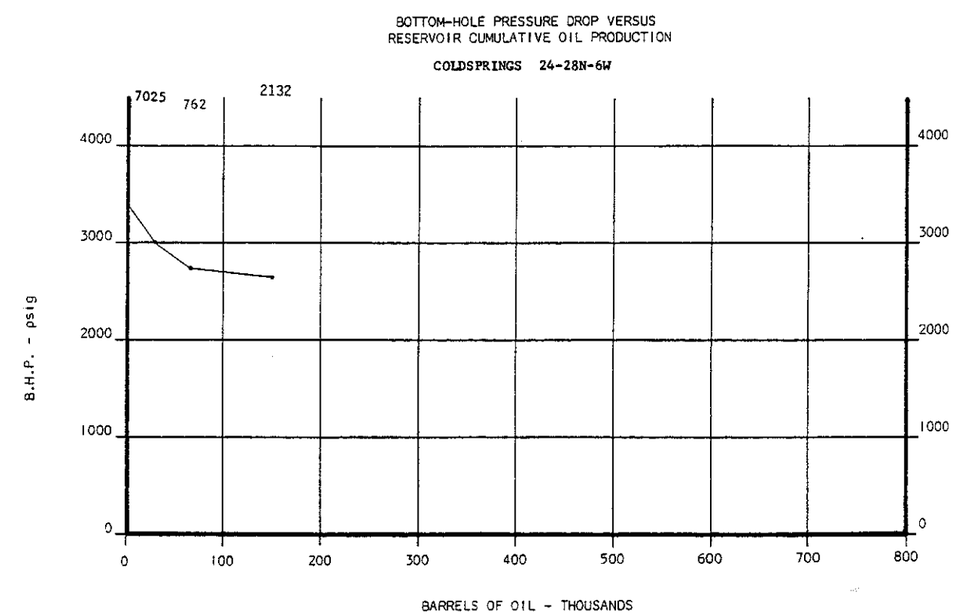
FIELD NAME COLDSPRINGS 24-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-74 VIRGIN PRESSURE 3377 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5340 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				APRIL 1, 1974							
Fawcett #1-24	4-74	66	6800	3377	.138	3377	Initial Test				
				APRIL 24, 1974							
Fawcett #1-24	4-74	N.A.	6795	3374	.129	3374	3377	4-1-74	- 3		
				JANUARY, 1977							
Fawcett #2-24	1-75	31	6877	3065	.30*	3019	3374	4-24-74	- 355		
				JUNE 5, 1978							
Fawcett #2-24	1-75	48	6877	2804	.284	2760	3019	1-77	- 259	1222	1542
				MARCH 21, 1979							
Fawcett #2-24	1-75	14	6877	2697	.30*	2651	2760	6-5-78	- 109	24	
				RESERVOIR REPRESSURED							
				NOVEMBER 28, 1982							
Little Twin #1-13B	11-82	44	6779 TVD	3703	.275	3657	2651	3-21-79	+1006	1809	1322
				JANUARY 8, 1983							
Fawcett #2-24	1-75	70.8	6850	3626	.569	3553	NOT USED IN CALCULATIONS			356	519
				MARCH 19, 1983							
Fawcett #4A-24	3-83	44	6813 TVD	3694	.544	3598	NOT USED IN CALCULATIONS			1583	2253

* Assumed

REMARKS:



STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 24A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-79 VIRGIN PRESSURE 3452 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5652 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 13, 1979						
Fawcett Coldsprings Unit "A" #3A-24	10-79	117.5	6952IVD	3452	.270	3452	INITIAL TEST			1928	2273
					JUNE 24, 1980						
Fawcett Coldsprings "A" #3A-24	10-79	281	6952 TVD	2869	.103	2867	3452	10-13-79	-585	2215	
					FEBRUARY 17, 1982						
Fawcett Coldsprings "A" #3A-24	10-79	2138	6989 TVD	1305	.058	1302	2867	6-24-80	-1565	896	
					AUGUST 8, 1983						
St. Coldsprings 1-26B	8-83	102	6867 TVD	2163	.10*	2167	NOT USED IN CALCULATIONS			1421	1721

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 25a-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-27-72 VIRGIN PRESSURE 3434 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5580 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JANUARY 10, 1973						
Simpson "E" #2-25	11-72	N.A.	6830	3434	N.A.	3434	INITIAL TEST			1610	
					APRIL 10, 1974						
Simpson "E" #2-25	11-72	27.5	6830	2551	.300	2551	3434	1-10-73	- 883	1127	2060
					OCTOBER 15, 1974						
Simpson "E" #2-25	11-72	24	6830	2122	.270	2122	2551	4-10-74	- 429	1321	1734
					APRIL 5, 1975						
Simpson "E" #2-25	11-72	27.5	6830	1474	.04	1474	2122	10-15-74	- 648	1214	1305
					OCTOBER 14, 1975						
Simpson "E" #2-25	11-72	24	6821	1253	.028	1253	1474	4-5-75	- 221	1032	1050
					APRIL 28, 1976						
Simpson "E" #2-25	11-72	24	6821	749	.0306	749	1253	10-14-75	- 504	617	627
					OCTOBER 22, 1976						
Simpson "E" #2-25	11-72	26.66	6830	596	.018	596	NOT USED IN CALCULATIONS			497	
					APRIL 16, 1977						
Simpson "E" #2-25	11-72	84	6875	697	.016	696	749	4-28-76	-53	563	579

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 25-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION NIAGARAN DISCOVERY DATE 1-17-71 VIRGIN PRESSURE 3621 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5750 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JANUARY 1971								
Simpson #B-1	1-17-71	N.A.	6984	3237	N.A.	3237	1st test				
			WELL PLUGGED JUNE 16, 1975 WITH 37188 MCF GAS PRODUCTION AND 986 BBL CONDENSATE.								
			SEPTEMBER 12, 1978								
Simpson "W" 4-25	9-78	96.8	7104TVD	3621	.114	3621	INITIAL TEST			2812	
			DECEMBER 10, 1981								
Simpson "W" 4-25	9-78	50	7104 TVD	1322	530	1322	3621	9-12-78	- 2361	966	1040

REMARKS:

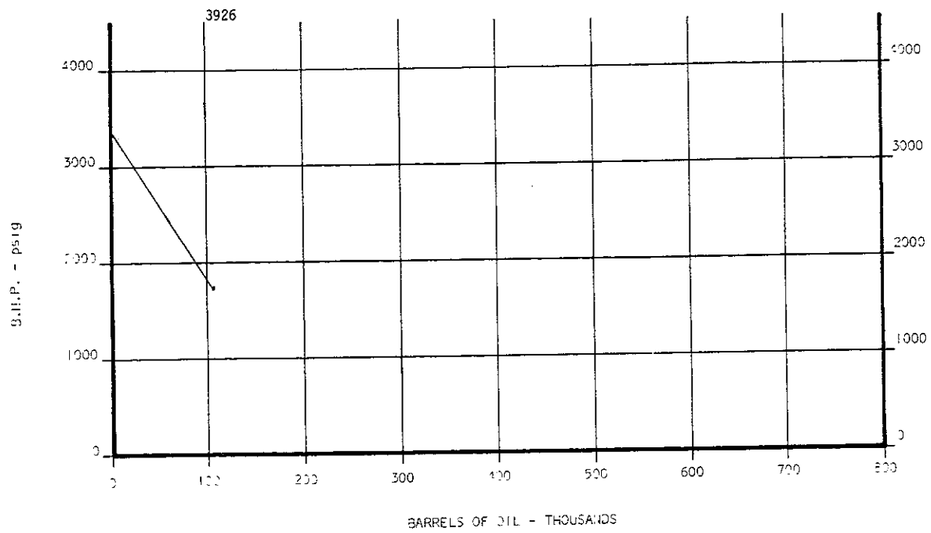
STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 28-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 3367 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4750 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					FEBRUARY 7, 1975						
Simpson "J" 1-28	2-75	N.A.	6000	2921	.394	2921	INITIAL TEST			1508	1563
	This well may be located in the same reservoir as is the Simpson "I" #3-22 (Coldsprings 22A-28N-6W).										
					OCTOBER 21, 1982						
Simpson "J" 1-28	2-75	4 days	6775	1860	.429	1528	NOT USED IN CALCULATIONS				
					NOVEMBER 29, 1983						
Simpson "J" 1-28	2-75	309	6800	1783	.060	1735	2921	2-7-75	-1186	1460	1460

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
COLDSPRINGS 28-28N-6W



STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 28a-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3556 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5709 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 5, 1977						
Simpson "M" #2-28	12-77	62	6937	3556	.341	3556	INITIAL TEST			1473	

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 29-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-76 VIRGIN PRESSURE 3587 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5703 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 7, 1976						
St.-Coldsprings #1-29	5-76	408	6869	3587	.28	3587	INITIAL TEST			1737	
					OCTOBER 2, 1976						
Simpson Unit "L" #2-29	10-76	73	6852 TVD	3520	.273	3527	5387	6-7-76	- 60	1787	1846
					APRIL 1, 1977						
St. Coldsprings #2-29	4-77	74.1	6876	3424	.28	3429	3527	10-2-76	- 98	1659	
					MAY 31, 1978						
Simpson Unit "L" #2-29	10-76	48	6851 TVD	2695	.268	2702	3429	4-1-77	- 727	1542	1832
					MAY 10, 1979						
Simpson Unit "L" #2-29	10-76	71.8	6852TVD	2274	.080	2276	2702	5-31-78	- 426	1802	1839
					MAY 11, 1980						
Simpson Unit "L" #2-29	10-76	73	6852 TVD	1994	.08*	1996	2276	5-10-79	- 280	1597	

* Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

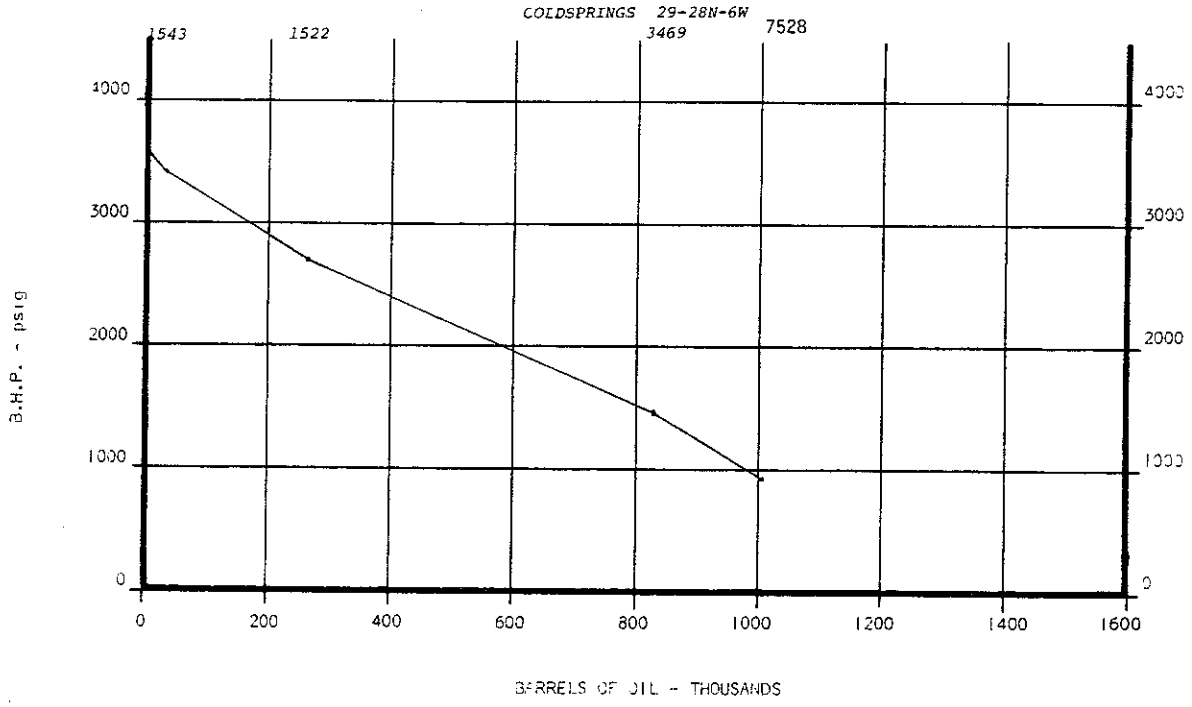
FIELD NAME: COLDSPRINGS 29-28N-6W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5703 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 11, 1981						
Simpson Unit "L" #2-29	10-76	71.8	6852 TVD	1468	.429	1479	1996	5-11-80	- 517	824	1231
					DECEMBER 16, 1983						
Simpson "L" 2-29	10-76	23	6880 TVD	941	.50*	940	1479	11-11-81	-539	510	820

* = Estimated

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

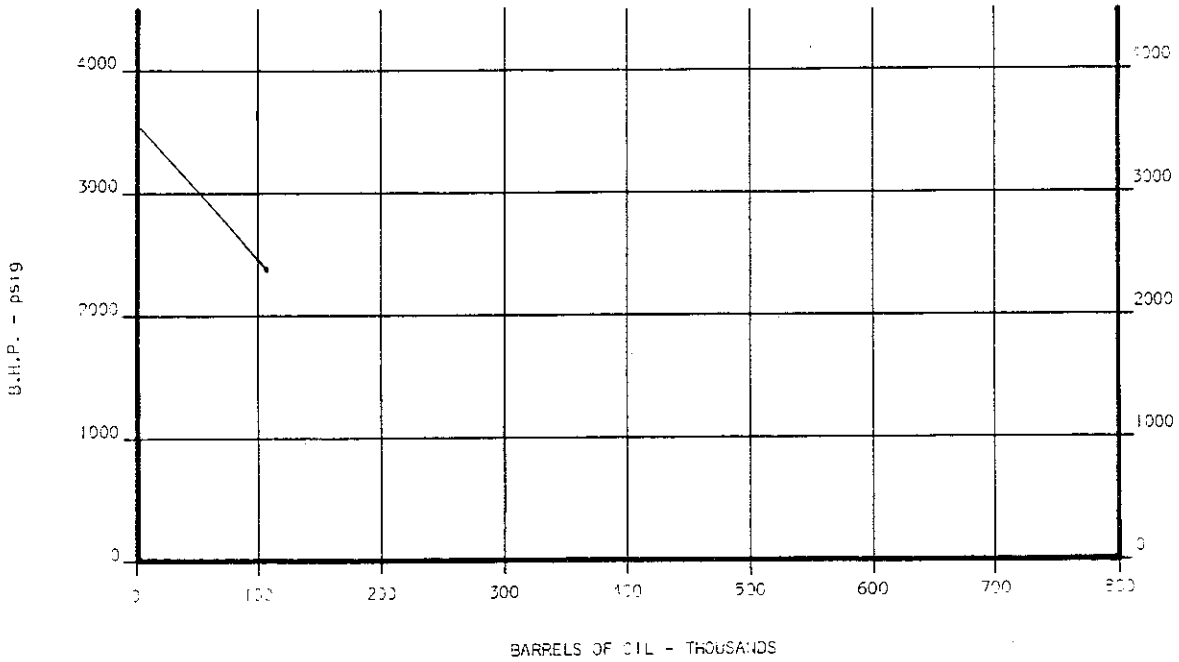
FIELD NAME COLDSPRINGS 29A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 12-77 VIRGIN PRESSURE 3543 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5722 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JANUARY 2, 1978						
Sedelwarft-Lafurge	4-29 12-77	71	6850	3543	.503	3543	INITIAL TEST			1681	1646
					MARCH 11, 1979						
Sedelwarft-Lafurge	4-29 12-77	72	6850	2666	.289	2666	3543	1-2-78	-877	1214	1416
					APRIL 3, 1980						
Sedelwarft-Lafurge	4-29 12-77	421	6850	2483	.30*	2483	2666	3-11-79	-183	660	1490
					AUGUST 8, 1983						
Sedelwarft-Lafurge	4-29 12-77	336	6863	1160	.30*	1159	2483	4-3-80	-1324	760	195

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
COLDSPRINGS 29A-28N-6W



STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 29B-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 11-82 VIRGIN PRESSURE 2553 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5573 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 10, 1982						
Simpson-Krasiejko 5-29	11-82	523	6738 TVD	2553	298	2553	INITIAL TEST			1212	--

STATE OF MICHIGAN

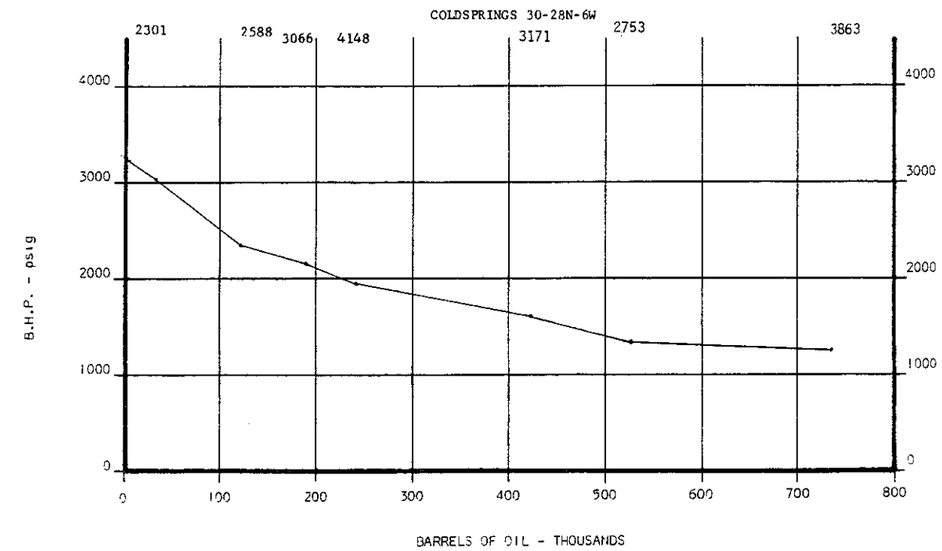
FIELD NAME COLDSPRINGS 30-28N-6W COUNTY Kalkaska TOWNSHIP Coldsprings DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 8-74 VIRGIN PRESSURE 3229 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5557 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			AUGUST 23, 1974								
St. Coldsprings #2-30	8-74	73	6739	3229	.290	Initial Test					
			AUGUST 4, 1975								
St Coldsprings #3-30	8-75	64.8	6702 TVD	3067	.2735	3069	3229	8-23-74	- 160	1376	
			MAY 5, 1976								
St. Coldsprings #3-30	8-75	25	6702 TVD	2377	.27	2375	3069	8-4-75	- 694	1329	Pkr.
			NOVEMBER 3, 1976								
St. Coldsprings #3-30	8-75	211	6703 TVD	2154	.27	2152	2375	5-5-76	- 223	1589	
			APRIL 20, 1977								
St. Coldsprings #3-30A	8-75	28	6702 TVD	1954	.293	1956	2152	11-3-76	- 196	1250	
			MAY 10, 1978								
St. Coldsprings #3-30a	8-75	39	6703 TVD	1512	.05	1512	NOT USED IN CALCULATIONS			1234	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



BOTTOM-HOLE PRESSURE TESTS - Page 2

COLDSPRINGS 30-28N-6W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5557 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 12, 1979						
St. Coldsprings 2-30	8-74	73	6738	1619	.05	1618	1956	4-20-77	- 338	1315	
					OCTOBER 2, 1980						
St. Coldsprings 2-30	8-74	240	6737	1354	.37	1345	1618	4-12-79	- 273	775	
					NOVEMBER 10, 1982						
St. Coldsprings 2-30	8-74	24	6738	1474	.30	1471	NOT USED IN CALCULATIONS			958	
					DECEMBER 1, 1983						
St. Coldsprings 2-30	8-74	29	6738	1254	.26	1248	1345	10-2-80	-97	844	

REMARKS:

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 31-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 3584 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5728 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 7, 1974						
Simpson -Westerman #1-31	12-74	66	6932	3584	.136	3584	INITIAL TEST				
					JANUARY 14, 1977						
Simpson Westerman #1-31	12-74	66	6930	878	.276	879	3584	12-7-74	- 2705	717	724
					JANUARY 12, 1978						
Simpson Westerman #1-31	12-74	77.5	6932	518	.020	518	879	1-14-77	- 361		498
					MAY 27, 1978						
Simpson Westerman #1-31	12-74	N.A.	6932	421	.021	420	518	1-12-78	- 98	345	407
					OCTOBER 2, 1978						
Simpson Westerman #1-31	12-74	49.3	6932	314	.02	314	420	5-27-78	- 106	251	
					OCTOBER 2, 1979						
Simpson Westerman #1-31	12-74	44.8	6932	175	.01	175	314	10-2-78	- 139	154	158

STATE OF MICHIGAN

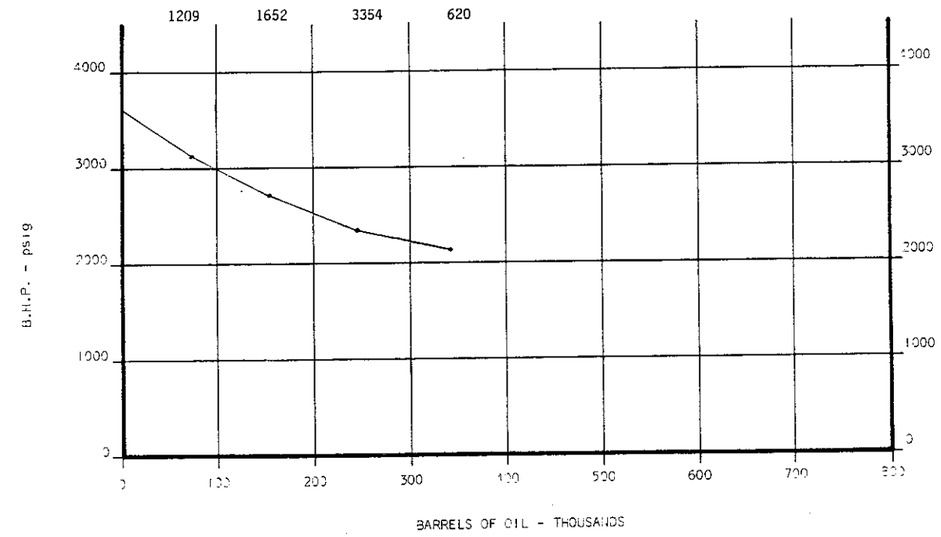
FIELD NAME COLDSPRINGS 32-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 12-76 VIRGIN PRESSURE 3591 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5725 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Short State Coldsprings #1-32					JANUARY 13, 1977						
	12-76	27.25	6874 TVD	3591	280	3591	INITIAL TEST			1811	1992
					OCTOBER 21, 1978						
Short St. Coldsprings 1-32	12-76	--	6758 TVD	3222	.545	3285	3591	1-13-77	-306	723	2144
					APRIL 26, 1979						
Short St. Coldsprings #1-32	12-76	27.8	6874 TVD	3127	541	3127	3285	10-21-78	-158	1426	2273
					APRIL 14, 1980						
Short St Coldsprings #1-32	12-76	71.5	6835 TVD	2705	282	2716	3127	4-26-79	-411	1635	2020
					JANUARY 28, 1981						
Short St. Coldsprings #1-32	12-76	98.3	6874 TVD	2516	.30*	2516	2716	4-14-80	-200	702	1463
					NOVEMBER 16, 1981						
Short St. Coldsprings #1-32	10-76	94.5	6874 TVD	2325	497	2325	2516	1-28-81	-191	1143	1457
					DECEMBER 28, 1982						
Short St. Coldsprings 1-32	10-76	24.3	6874 TVD	2120	553	2120	NOT USED IN CALCULATIONS			440	1247

* = Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
COLDSPRINGS 32-28N-6W



BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: COLDSPRINGS 32-28N-6W

OPERATOR LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5725 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					AUGUST 12, 1983						
Short-St. Coldsprings 1-32	10-76	339	6874 TVD	2165	193	2165	2325	11-16-81	-160	835	835

REMARKS:

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 35-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-79 VIRGIN PRESSURE 3588 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5937 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 15, 1979						
Lockwood Brammer St. Coldsprings #1-35	10-79	63.5	7163	3588	.106	3588	INITIAL TEST			2803	2820
					JANUARY 30, 1981						
Lockwood Brammer #1-35	10-79	N.A.	7163	1926	.104	1926	3588	10-15-79	- 1662	1528	254
					MARCH 27, 1982						
Lockwood Brammer #1-35	10-79	44.3	7163	945	.055	945	1926	1-30-81	- 981	768	768

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 36-28N-5W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-78 VIRGIN PRESSURE 3626 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5883 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
				SEPTEMBER 23, 1978						
Simpson "S" 2-36	9-78	92	7140	3626	.114	3626	INITIAL TEST			2841

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 3-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-73 VIRGIN PRESSURE 3755 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5815 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
			NOVEMBER, 1973							
Goddard et al 3-3	10-73	148	7020	3627	.130	3627	INITIAL TEST			
			JANUARY 28, 1977							
Paxson 1-3	8-73	Months	7216	3779	.13*	3755	INITIAL TEST			
			JANUARY 25, 1978							
Goddard #3-3	10-73	30 Days	7059	1773	.052	1772	3755	1-28-77	- 1983	1387
			OCTOBER 10, 1978							
Paxson #1-3	8-73	64	7216	2805	.083	2790	NOT USED IN CALCULATIONS			2203
			SEPTEMBER 20, 1979							
Goddard #3-3	10-73	435	7059	1524	.042	1523	1772	1-25-78	- 232	1245
			OCTOBER 12, 1981							
Paxson 1-3	8-73	49.5	7216	1046	03	1041	1523	9-20-79	- 482	855

* Assumed

REMARKS: * Not built-up

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 2-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-80 VIRGIN PRESSURE 2999 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 6004 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
					MARCH 11, 1980					
D'Hondt #3-2B	3-80	426	7223TVD	2999	.0872	2999	INITIAL TEST			2360

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 3A-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-73 VIRGIN PRESSURE 3723 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5815 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					MARCH 24, 1976					
Nickelson #2-3	10-73	Since Completion	7020	2690	.083	2692	INITIAL TEST			2119
					JANUARY 11, 1983					
Paxson #4-3B	1-83	137 7	7144 TVD	3733	.10*	3723	INITIAL TEST			

* = Assumed

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 6-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-73 VIRGIN PRESSURE 3588 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5679 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Wood #1-6	5-73	21	MAY 24, 1973 6792	3588	.125	3588	INITIAL TEST			2743	
Wood #1-6	5-73		MARCH 6, 1974 6730	3429	.125*	3437	3588	5-24-73	- 151		
Wood #1-6	5-73	72.2	MAY 13, 1975 6730	2183	.125*	2191	3437	3-6-74	- 1246	1731	
Wood #1-6	5-73	77	JULY 21, 1975 6730	2024	.06	2028	2191	5-13-75	- 163	1607	
Wood #1-6	5-73	115	DECEMBER 23, 1977 6525	866	.022	872	2028	7-21-75	-1156	723	
Wood #1-6	5-73	64	OCTOBER 2, 1978 6729	633	.016	634	872	12-23-77	- 238	541	
Wood #1-6	5-73	72	JANUARY 25, 1980 6602	408	.015	411	634	10-2-78	- 223	300	

(M.P.S.C. 4-Points test)

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 9-27N-6W (EAST) COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION NIAGARAN DISCOVERY DATE 3-28-72 VIRGIN PRESSURE 3830 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5834 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Eyck #1-9	3-28-72	21.5	7058	3785	MARCH 27, 1972 N.A.	3785	INITIAL TEST				
Eyck #1-9	3-72	30,960	7057	3830	OCTOBER 9, 1975 .13	3830	INITIAL TEST			1631	
Eyck #1-9	3-72	64.8	6958	3450	NOVEMBER 2, 1975 .13*	3463	3830	10-9-75	- 187	2727	
Eyck #1-9	3-72	115	6958	1590	JANUARY 9, 1976 .13*	1603	NOT USED IN CALCULATIONS			1296	
Eyck #1-9	3-72	1920	6958	1809	APRIL 8, 1976 .051	1814	3701	11-2, 5-75	- 1887	1464	
Eyck #1-9	3-72	182.5	6958	472	OCTOBER 3, 1977 .012	473	1814	4-8-76	- 1341	385	
Eyck #1-9	3-72	168	6958	426	SEPTEMBER 20, 1979 .012	427	473	10-3-77	- 46	350	

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 7-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3789 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5844 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Fudge-Brown #1-7	9-73	84	SEPTEMBER 17, 1973 6999 TVD	3759	.110	3759	INITIAL TEST				
Fudge Brown #1-7	9-73	SINCE COMPLETION	MARCH 25, 1976 6999 TVD	3787	.114	3789	INITIAL PRESSURE				
Fudge Brown #1-7	9-73	SINCE COMPLETION	AUGUST 17, 1976 7013 TVD	3662	.114*	3662	INITIAL PRESSURE			2700	
Fudge Brown #1-7	9-73	126.5	NOVEMBER 16, 1977 7013 TVD	1225	.035	1225	3789	3-25-76	- 2564	1002	
Fudge Brown #1-7	9-73	72	FEBRUARY 23, 1979 7013TVD	760	.016	760	1225	11-16-77	- 465	562	
Fudge Brown #1-7	9-73	264	SEPTEMBER 28, 1979 7013TVD	740	.018	740	760	2-23-79	- 20	626	

* Assumed

REMARKS:

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 9-27N-6W (MIDDLE) COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-73 VIRGIN PRESSURE 3840 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5834 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Webber #2-9	5-73	21,600	7056	3818	NOVEMBER 5, 1975 .08	3818	INITIAL TEST			3039	
Webber #2-9	5-73	Since Completion	7026	3837	MARCH 1, 1977 .10*	3840	INITIAL TEST				
Webber #4-9A	5-79	105	7156TVD	2741	MAY 16, 1979 .093	2730	3840	3-1-77	- 1110	2070	
Weber #4-9A	5-79	N.A.	7156TVD	2596	SEPTEMBER 19, 1979 .078	2587	2730	5-16-79	- 143	2035	

* Assumed

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 9-27N-6W (NORTHEAST) COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-72* VIRGIN PRESSURE 3800* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5834 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MARCH 5, 1980						
Ten Eyck #5-9A	3-80	N.A.	7181IVD	2182	.062	2182	3800*	3-72*	- 1618		
This well was drilled as a replacement well for the Eyck #1-9 on the same 160-acre drilling unit. This well appears to be located in a drawn down reservoir.											
					OCTOBER 7, 1983						
Ten Eyck #5-9A	3-80	31	7181 TVD	372	.02	370	2182	3-5-80	-1812	314	

*Estimated

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 17-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-15-73 VIRGIN PRESSURE 3889 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5961 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				MAY 14, 1973							
Schuler #1-17	5-73	38	7192	3882	.110	3882	INITIAL TEST			2934	
				MARCH 24, 1976							
Schuler #1-17	5-73	Since Completion	7186	3888	.128	3889	INITIAL PRESSURE			2943	
				(REWORK) OCTOBER 2, 1976							
Schuler #1-17	5-73	203.25	7158	3861	.128*	3865	3889	3-24-76	- 24	2896	
				AUGUST 2, 1977							
Schuler #1-17	5-73	15 Days	7107	3242	.112	3252	3865	10-2-76	- 613	2452	
				AUGUST 22, 1978							
Schuler #1-17	5-73	N A	7107	3091	.13	3102	3252	8-2-77	- 150	2172	
				OCTOBER 10, 1979							
Schuler #1-17	5-73	480	7107	2920	108	2929	3102	8-22-78	- 173	2160	
				JUNE 15, 1982							
Schuler #1-17	5-73	189	7107	2120	.06	2125	2929	10-10-79	-804	1652	

* Assumed

REMARKS:

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 9-27N-6W (WEST) COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-73 VIRGIN PRESSURE 3823 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5834 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 5, 1975						
Milana #1-8	5-73	21,600	7025	3819	.12	3823	INITIAL TEST			2930	
					AUGUST 5, 1976						
Milana #1-8	5-73	Since Completion	7031	3724	.12*	3723	INITIAL TEST			2824	
					AUGUST 10, 1977						
Milana #1-8	5-73	N.A.	7021	3125	.106	3129	3823	11-5-75	- 694	2389	
					OCTOBER 9, 1978						
Milana #1-8	5-73	23days	7032	2819	.096	2821	3129	8-10-77	- 308	2141	
					SEPTEMBER 20, 1979						
Milana #1-8	5-73	456	7032	2800	.089	2802	2821	10-9-78	- 19	2172	
					JUNE 17, 1982						
Milana #1-8	5-73	51	7032	1855	.15	1859	2802	9-20-79	-943	1469	

* Assumed

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 19-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-75 VIRGIN PRESSURE 3853 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5922 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 9, 1975						
Rosenburg #1-19	6-75	393	7104 IVD	3736	.210	3736	INITIAL TEST			2970	
POSSIBLY IN SAME REEF AS EXCELSIOR 19a-27N-6W											
					NOVEMBER 23, 1977						
Rosenburg #1-19	6-75	30 Days	7137 TVD	3857	.131	3853	INITIAL TEST			2922	
					AUGUST 25, 1978						
Rosenburg #1-19	6-75	268.5	7137IVD	2213	.08	2210	NOT USED IN CALCULATIONS			1740	
					OCTOBER 19, 1979						
Rosenburg #1-19	6-75	936.5	7141IVD	2535	.043	2533	3853	11-23-77	- 1320	1950	

STATE OF MICHIGAN

FIELD NAME EXCELSIOR 19A-27N-6W COUNTY KALKASKA TOWNSHIP EXCELSIOR DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-76 VIRGIN PRESSURE 3957 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5922 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Doe #2-19A	7-76	22	7142 TVD	3964	JULY 21, 1976 .21*	3957	INITIAL TEST			3055	
POSSIBLY IN SAME REEF AS EXCELSIOR 19-27N-6W											
Doe #2-19A	7-76	36	7142IVD	2217	OCTOBER 10, 1978 .065	2215	NOT USED IN CALCULATIONS			1748	
Doe #2-19A	7-76	576	7275 IVD	2379	OCTOBER 5, 1979 .07	2367	3957	7-21-76	- 1590	1887	
Doe #2-19A	7-76	104	7141 TVD	1059	JUNE 18, 1982 .02	1058	2367	10-5-79	-1309	867	

STATE OF MICHIGAN

FIELD NAME KALKASKA 3-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-25-73 VIRGIN PRESSURE 3358 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5308 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Shemo #1-3	7-73	66	AUGUST 21, 1973 6386	3358	.290	3358	INITIAL TEST REPORTED NOT BUILT UP				
Shemo #1-3	7-73	-	AUGUST 28, 1973 6386	3345	.220	3345	3358	8-21-73	- 13		
Shemo #1-3	7-73	24	APRIL 10, 1973 6540	3078	.143	3042	3345	8-28-73	- 303	2387	2460
Shemo #1-3	7-73	24	OCTOBER 14, 1974 6640	2825	.120	2795	3042	4-10-73	- 247	2198 -	2185
Shemo #1-3	7-73	31	APRIL 5, 1975 6640	2575	.07	2557	2795	10-14-74	- 238	1841	2040
Shemo #1-3	7-73	24	OCTOBER 14, 1975 6536	2314	.209	2283	2557	4-5-75	- 274	1838	1840
Shemo #1-3	7-73	24	MAY 11, 1976 6536	2057	.066	2047	2283	10-14-75	- 236	1651	1674
Shemo #1-3	7-73	76.25	FEBRUARY 18, 1977 6486	1804	.056	1798	2047	5-11-76	- 249	1460	1640

REMARKS:

STATE OF MICHIGAN

FIELD NAME KALKASKA 1-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 3142 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5633 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Shemo #1	12-74	66	6725 IVD	3142	DECEMBER 31, 1974 .175	3142	INITIAL TEST				
Shemo #1	12-74	98	6725 TVD	980	APRIL 17, 1977 .071	979	3142	12-31-74	- 2163	805	814
Shemo #1	12-74	51.8	6725 IVD	616	JANUARY 13, 1978 .020	616	979	4-17-77	- 363	507	528
Shemo #1	12-74	N.A.	6725 IVD	481	APRIL 17, 1978 .012	481	616	1-13-78	- 135	397	420
Shemo #1	12-74	49	6676IVD	267	FEBRUARY 17, 1978 .027	268	481	4-17-78	- 213	214	
Shemo #1-1	12-74	47 8	6723IVD	132	SEPTEMBER 25, 1979 .054	132	268	2-17-78	- 136	102	133

BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 3-27N-7W

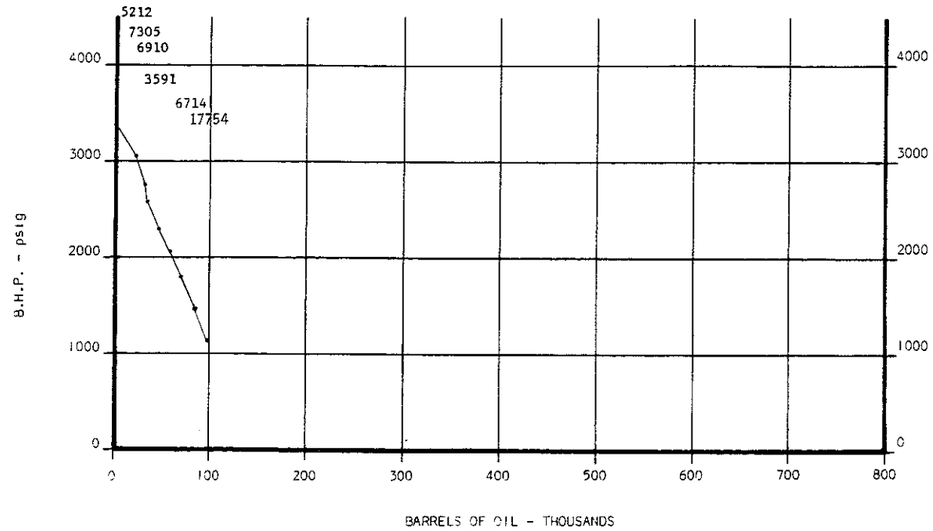
OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5308 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Shemo #1-3	7-73	97 5	6486	1465	MAY 13, 1978 .047	1460	1798	2-18-77	- 338	1199	
Shemo #1-3	7-73	60 8	6675	1156	SEPTEMBER 7, 1979 .047*	1142	1460	5-13-78	- 318	182	768
Shemo #1-3	7-73	---	6675	1185	JUNE 30, 1981 .034	1175	NOT USED IN CALCULATIONS				

*Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 3-27N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 3a-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3316 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5420 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			SEPTEMBER 20, 1973								
St. Kalkaska "H" #1-3	9-73	59	6485	3316	262	3316	INITIAL TEST				
			NOVEMBER 5, 1973								
St. Kalkaska "H" 1-3	9-73	63	6488	3291	258	3290	3316	9-20-73	- 25	2459	2525
			OCTOBER 14, 1974								
St. Kalkaska "H" 1-3	9-73	24	6485	2646	.280	2649	3290	11-5-73	- 641	1920	2059
			APRIL 5, 1975								
St. Kalkaska "H" 1-3	9-73	24.8	6485	2150	.280	2153	2649	10-14-74	- 496	1715	1482
			MAY 11, 1976								
St. Kalkaska "H" 1-3	9-73	24	6486	2045	.084	2046	2153	4-5-75	- 107	1656	1667
			FEBRUARY 18, 1977								
St. Kalkaska "H" 1-3	9-73	N.A.	6486	2120	.529	2126	2046	5-11-76	+ 80		

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

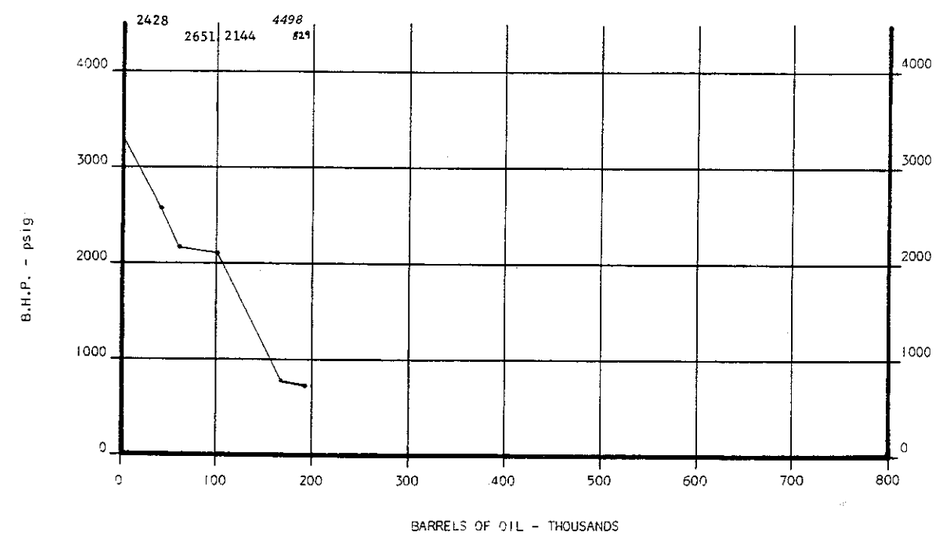
FIELD NAME: KALKASKA 3a-27N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5420 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MARCH 20, 1981						
St. Kalkaska "H" #1-3	9-73	0	6486	776	249	779	2126	2-18-77	- 1347	48	
					DECEMBER 15, 1983						
St. Kalkaska "H" #1-3	9-73	148	6550	708	.025	706	779	3-20-81	-73	590	590

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 3a-27N-7W



STATE OF MICHIGAN

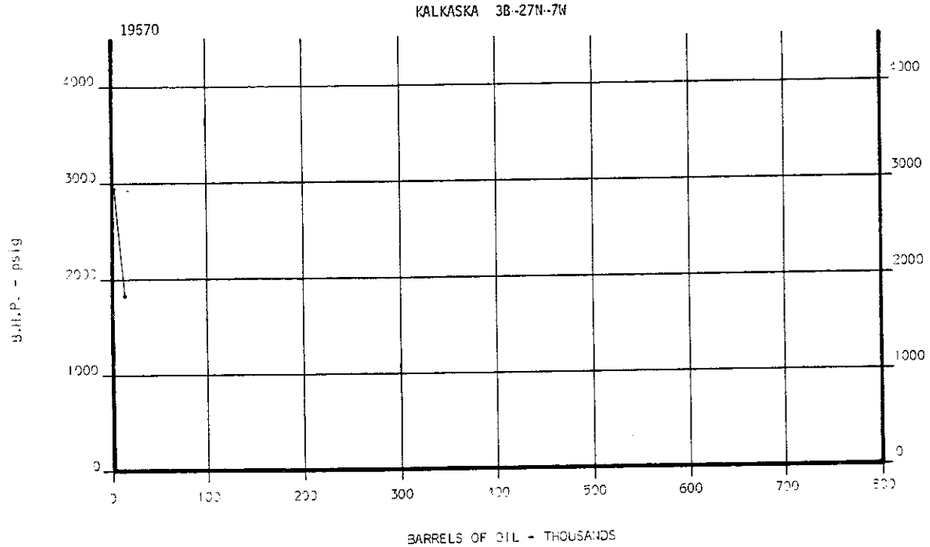
FIELD NAME KALKASKA 3B-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-77 VIRGIN PRESSURE 2949 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5570 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
St. Kalkaska #1-3	4-77	65.1	6650	2949	MAY 2, 1977 .24	2949	INITIAL TEST			2111	
St. Kalkaska #1-3	4-77	49	6650	1833	MARCH 12, 1979 .16	1831	2949	5-2-77	- 1118	1469	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 3B-27N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 5-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA & RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 9-11-70 VIRGIN PRESSURE 3360 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
St. Kalkaska 1-5	9-70		OCTOBER 18, 1970 6300	3287	.300*	3360	1st	test			
St. Kalkaska 1-5	9-70		APRIL 6, 1971 6380	3193	.559	3285	3360	10-70	- 85	548	
St. Kalkaska 2-5	1-72		DECEMBER 12, 1971 6340	2999	.300*	3069	3285	4-71	- 216		
St. Kalkaska 1-5	9-70	264	FEBRUARY 17, 1972 6380	2937	.300*	2986	3069	12-71	- 83	163	
St. Kalkaska 1-5	9-70	Days	MARCH 13, 1972 6380	2892	.550*	2982					
St. Kalkaska 2-5	1-72		6340	2892	.300*	2951				1137	
				AVERAGE		2966	2986	2-72	- 20		
St. Kalkaska 2-5	1-72		JUNE 21, 1972 6340	2853	.300	2912	2966	3-72	- 54	1210	
Rice 2-5	9-72	22	SEPTEMBER 22, 1972 6359	2646	.285	2699	2912	6-72	- 213	1096	
St. Kalkaska 2-5	1-72	28	OCTOBER 30, 1972 6354	2600	.290	2653	2699	9-72	- 46	966	Pkr.

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - PAGE 2

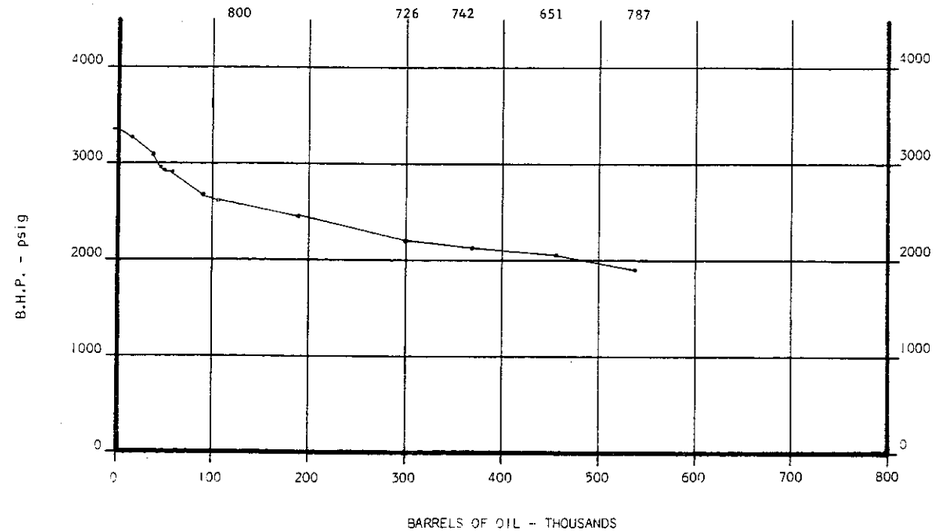
KALKASKA 5-27N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
St. Kalkaska 5-5	1-73	24 +	JANUARY 4, 1973 6346	2573	285	2579	2653	10-72	- 74		
St. Kalkaska 2-5	1-72	88	APRIL 11, 1973 6342	2416	.300	2474	2653	10-30-72	- 179	900	Pkr.
St.-Kalkaska 2-5	1-72	64	OCTOBER 12, 1973 6342	2210	.300	2268				551	Pkr.
Rice 3-5	9-72	23	6360	2202	.280	2253				706	Pkr.
					Average	2261	2474	4-11-73	-213		
Rice #3-5	9-72	27	APRIL 9, 1974 6360	2101	310	2157				388	Pkr.
St. Kalkaska 2-5	1-72	54	6342	2104	.300	2162				608	
					Average	2159	2261	10-12-73	- 102		
Rice #3-5	9-72	124	SEPTEMBER 12, 1974 6360	1988	.530	2084	2159	4-9-74	- 75	672	Pkr.
St. Kalkaska 2-5	1-72	24	MAY 16, 1975 6342	1855	.290	1911	2084	9-12-74	- 173	745	800

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 5-25N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 9-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 11-4-72 VIRGIN PRESSURE 3359 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5464 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			NOVEMBER 3, 1972								
Hecktman #1-9	11-72	17.5	6525	3359	125	3359	Initial	test			
			JUNE 16, 1975								
Hecktman #1-9	11-72	62.2	6227	2794	125*	2831	3359	11-3-72	- 528	2210	
			JANUARY 25, 1983								
Hecktman #1-9	11-72	7 da	6496	1064	.03	1065	2831	6-16-75	-1766	872	

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 7-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION NIAGARAN DISCOVERY DATE 4-17-72 VIRGIN PRESSURE 3330 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5294 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			APRIL 15, 1972								
St Kalkaska 1-7	4-72	9 25	6303	3333	.300*	3330	1st	test		1420	

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 10-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 3-10-72 VIRGIN PRESSURE 3402 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5460 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			MARCH 5, 1972								
McKinney 1-10	3-72	22	6520	3372	125*	3372	1st	test		2620	Pkr.
			SEPTEMBER 20, 1972								
McKinney 1-10	3-72		6564	3408	125	3402	3372	3-72	+ 30		
			MARCH 3, 1972								
McKinney 1-10	3-72	18	6000	3020	.100	3072	3402	9-20	- 330	2414	Pkr.
			FEBRUARY 26, 1974 (M.P.S.C. 4 Point Test)								
McKinney 1-10	3-72		6513	3240	.100	3240	3072	3-3-72	+ 162		
			MAY 16, 1975								
McKinney 1-10	3-72	71.5	6512	2154	.100	2155	3240	2-26-74	- 1085	1733	
			SEPTEMBER 30, 1977								
McKinney 1-10	3-72	N.A.	6619	1545	.10*	1536	2155	5-16-75	- 619		
			JULY 10, 1978								
McKinney 1-10	3-72	96.5	6512	1287	.034	1288	1536	9-30-77	- 248	1063	
			NOVEMBER 2, 1981								
McKinney 1-10	3-72	147	6324	931	.02	935	1288	7-10-78	- 353	775	

REMARKS: * Assumed

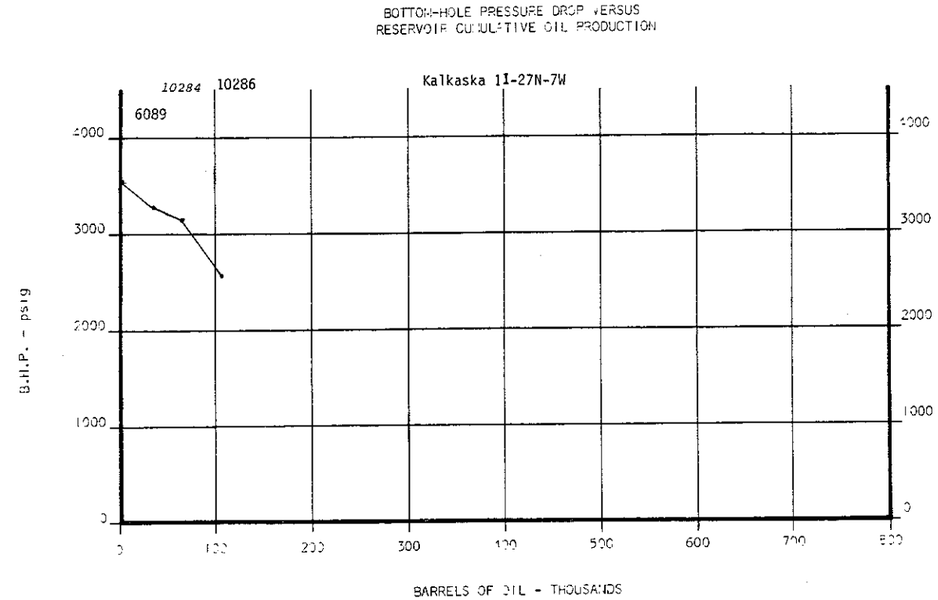
BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: KALKASKA 10-27N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5460 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
McKinney #1-10	3-72	184	6461	914	JUNE 17, 1983 .02*	915	935	11-2-81	-20	--	

* = Assumed

REMARKS:



STATE OF MICHIGAN

FIELD NAME KALKASKA 11-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-78 VIRGIN PRESSURE 3510 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5814 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
St Kalkaska 1-11	9-78	41	6884	SEPTEMBER 15, 1978 3510	.28	3510	INITIAL TEST			1800	
St. Kalkaska 1-11	9-78	24.5	6883	OCTOBER 24, 1979 3308	.22	3306	3510	9-15-78	- 204	2248	
St. Kalkaska #1-11	9-78	25.5	6883	APRIL 2, 1981 3136	.13	3135	3306	10-24-79	- 171	2404	
St. Kalkaska #1-11	9-78	24	6883	DECEMBER 13, 1983 2549	.14	2547	3135	4-2-81	-588	2214	

STATE OF MICHIGAN

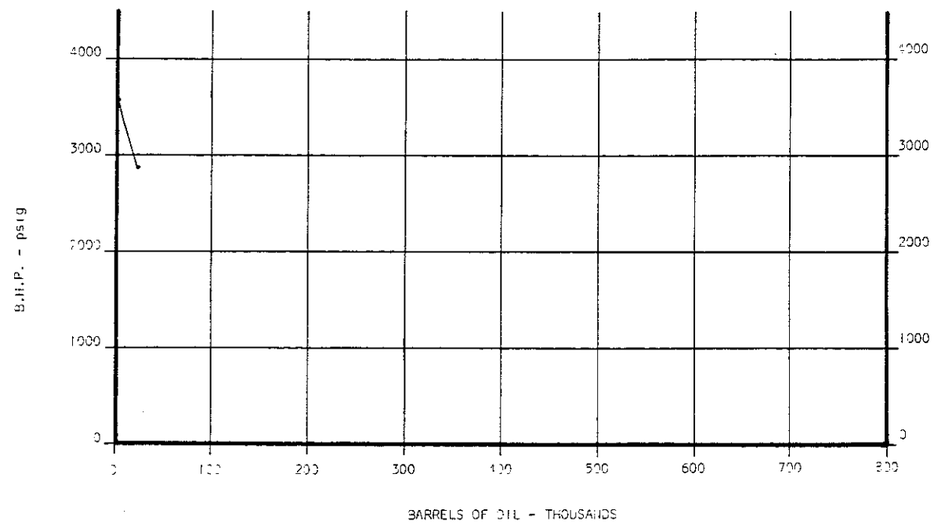
FIELD NAME KALKASKA 12-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 9-10-72 VIRGIN PRESSURE 3594 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5814 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Cross #1-12	9-72	213	SEPTEMBER 19, 1972 6893	3330	.290	3330	Initial test not built-up				
Cross #1-12	9-72	Many	NOVEMBER 1, 1972 6893	3594	.280	3594	INITIAL TEST				
Cross #1-12	9-72	29	OCTOBER 12, 1973 6893	1180	.040	1180	NOT USED IN CALCULATIONS			983	Pkr.
Cross #1-12	9-72	24	APRIL 9, 1974 6893	1018	.040	1018	NOT USED IN CALCULATIONS			852	Pkr
Cross #1-12	9-72	265	JUNE 22, 1979 (after well rework) 6892	1884	.36	1879	3594	11-1-72	-1715	973	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Kalkaska 12-27N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 14-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-80 VIRGIN PRESSURE 3033 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5696 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 17, 1980						
Meier #1-14	6-80	63.5	6806 TVD	3033	.10	3033	INITIAL TEST				
					JANUARY 23, 1981						
Meier #1-14	6-80	210	6806 TVD	1460	.044	1460	3033	6-17-80	- 1573	1171	
					JUNE 23, 1981						
Meier #1-14	6-80	---	6806 TVD	1161	.093	1161	1460	1-23-81	- 299		

STATE OF MICHIGAN

FIELD NAME KALKASKA 13-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-71 VIRGIN PRESSURE 3795 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5790 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JANUARY 9, 1972						
Henderson 1-13	12-71	66.5	6910	3794	.133	3795	INITIAL TEST				
					MAY 30, 1975						
Henderson 1-13	12-71	N.A.	6914	2912	.098	2912	3795	1-9-72	- 883	2282	
					MAY 2, 1977						
Henderson 1-13	12-71	528	6915	2308	.101	2308	2912	5-30-75	- 604	1798	
					JUNE 20, 1978						
Henderson 1-13	12-71	72	6915	1707	.048	1707	2308	5-2-77	- 601	1375	
					OCTOBER 3, 1978						
Henderson 1-13	12-71	70.8	6915	1619	.046	1619	1707	6-20-78	- 88	1292	
					DECEMBER 22, 1980						
Nash 1-13	12-80	72	6924 TVD	1356	.536	1353	1619	10-3-78	- 266	1064	1066
					NOVEMBER 16, 1981						
Henderson 1-13	12-71	70.8	6915	1128	.052	1128	1353	12-22-80	- 225	908	

STATE OF MICHIGAN

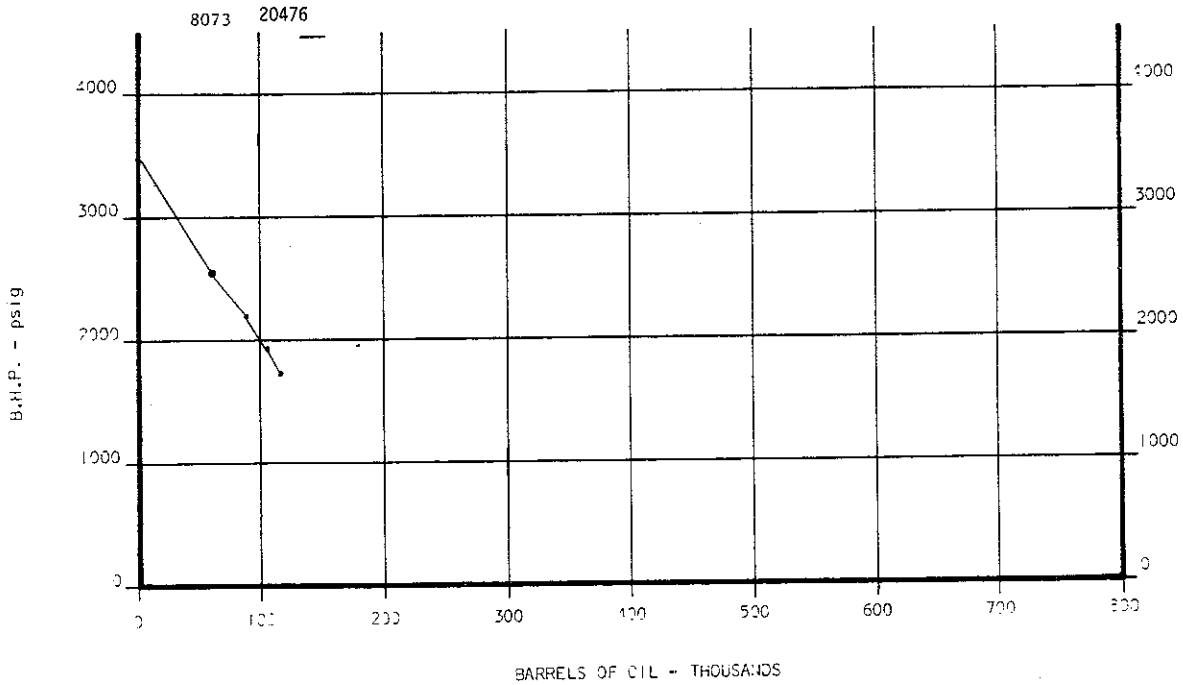
FIELD NAME KALKASKA 16A-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3466 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5645 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			SEPTEMBER 26, 1973								
Henderson #1-16	9-73	66	6701 TVD	3451	.438	3451	INITIAL TEST				
			MAY 30, 1975								
St Kalkaska 1-15	5-75	159.5	6678 TVD	3462	.13	3466	INITIAL TEST			2654	
			MAY 7, 1978								
Henderson #1-16	9-73	72	6703 TVD	2543	.268	2542	3466	5-30-75	- 924	1801	1365
			MAY 17, 1979								
Henderson #1-16	9-73	45.5	6677TVD	2192	.251	2198	2542	5-7-78	- 344	1464	893
			APRIL 10, 1980								
St. Kalkaska 1-15	5-75	48	6679TVD	1965	17	1969	2198	5-17-79	- 229	1548	
			JANUARY 31, 1981								
Henderson #1-16	9-73	95.5	6703 TVD	1715	.108	1715	1969	4-10-80	- 254	1355	1356

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
KALKASKA 16A-27N-7W



STATE OF MICHIGAN

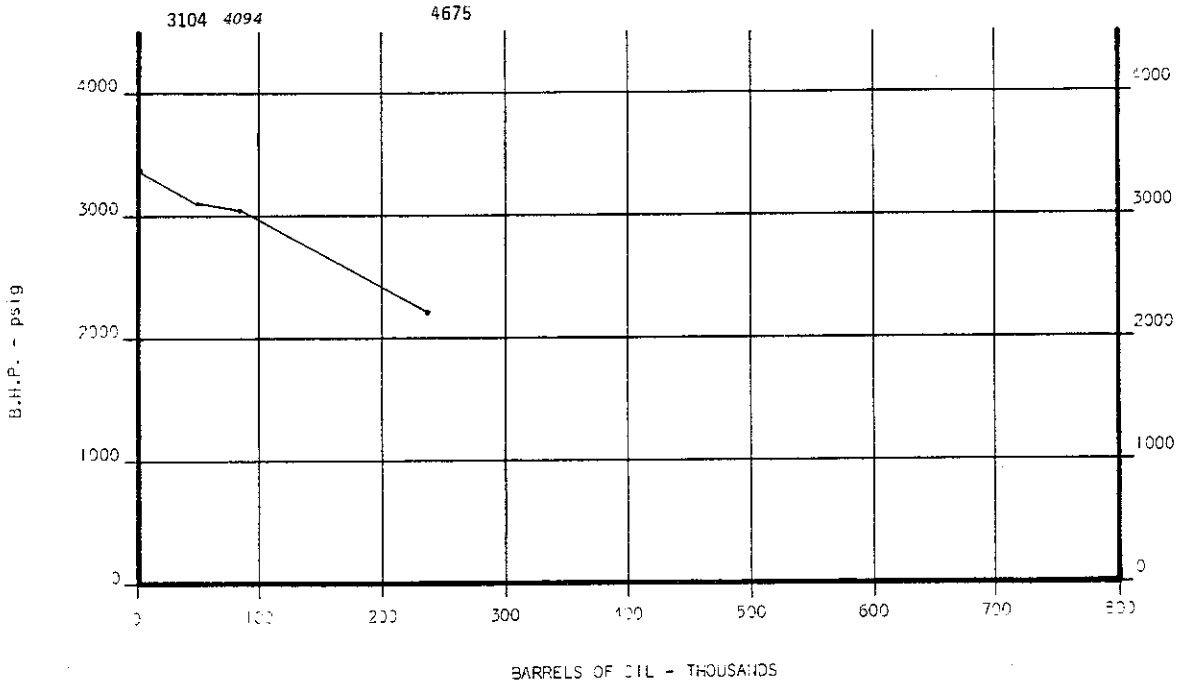
FIELD NAME KALKASKA 16B-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 6-79 VIRGIN PRESSURE 3393 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5655 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				JUNE 1, 1979							
Holcomb 1-16	6-79	41	6703TVD	3393	23	3393	INITIAL TEST				
				FEBRUARY 16, 1980							
Kalkaska Townsite	#1-17 2-80	92.2	6680TVD	3276	32	3284	3393	6-1-79	- 109	1560	
				JUNE 30, 1980							
Kalkaska Townsite	#1-17 2-80	181	6680TVD	3115	.30*	3118	3284	2-16-80	- 166		
				MARCH 17, 1981							
Kalkaska Townsite #1-17B	3-81	---	6652 TVD	2980	.54	3005	3118	6-30-80	- 113		
				NOVEMBER 30, 1983							
Holcomb-St Kalkaska #1-16	6-79	25	6703 TVD	2142	.06	2141				1702	
Kalkaska Townsite	#1-17B 2-80	26	6652 TVD	2273	.08 AVG	2277 / 2209	3005	3-17-81	-796	1756	

*Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Kalkaska 16B-25N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 19-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 8-74 VIRGIN PRESSURE 3415 NO. PRODUCING WELLS

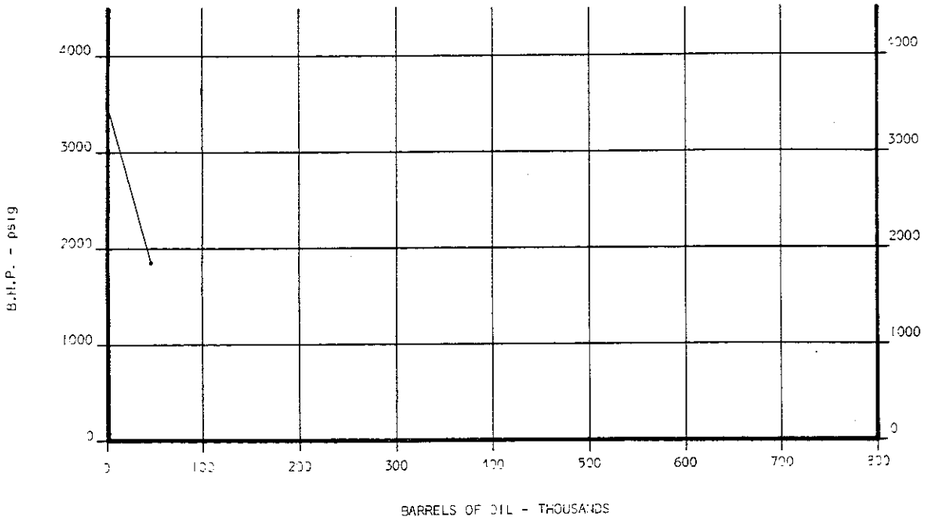
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5587 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			AUGUST 16, 1974								
State-Kalkaska #2-19	8-74	66	6631	3415	.244	3415	Initial Test				
			DECEMBER 11, 1976								
St. Kalkaska #1-19a	12-76	227.9	6610 TVD	2914	.55	2927	3415	8-16-74	- 488	441	
			NOVEMBER 9, 1977								
St. Kalkaska #2-19	8-74	71.3	6564	2661	.50*	2695	2927	12-11-76	-232	--	
			MAY 6, 1980								
St. Kalkaska #2-19	8-74	1 mo	6626	1847	.532	1850	2695	11-9-77	-845	41	

* = Estimated

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 19-27N-7W



STATE OF MICHIGAN

FIELD NAME KALKASKA 24-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-75 VIRGIN PRESSURE 3990 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5611 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					FEBRUARY 9, 1975						
Rosenberg #1-24	2-75	39.5	6797 TVD	3368	.40	3368	INITIAL TEST			1752	
					MARCH 4, 1976						
Rosenberg #1-24	2-75	Since Completion	6797 TVD	3990	.55	3990	INITIAL PRESSURE			1692	
					DECEMBER 23, 1978						
Rosenberg #1-24	2-75	N.A.	7137TVD	2168	.10*	2134	3990	3-4-76	- 1856	1586	Pkr.

*Estimated

STATE OF MICHIGAN

FIELD NAME KALKASKA 23-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-18-77 VIRGIN PRESSURE 3764 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5947 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JULY 29, 1977						
Badder 1-23A	7-77	110	7040 TVD	3764	.10*	3764	INITIAL TEST			2855	
					JANUARY 29, 1979						
Badder #1-23A	7-77	345	7041TVD	1831	.058	1831	NOT USED IN CALCULATIONS				
					AUGUST 8, 1982						
Steed #3-22A	8-82	137	6941 TVD	2468	.09	2473	3764	7-29-77	-1291	1887	
					NOVEMBER 17, 1983						
Steed #3-22A	8-82	--	6932 TVD	2453	.10*	2459	2473	8-8-82	-14	--	

* Estimated

STATE OF MICHIGAN

FIELD NAME KALKASKA 24A-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 2-77 VIRGIN PRESSURE 3799 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5611 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					FEBRUARY 28, 1978						
Hem Associates #2-24	2-77	98.5	7111TVD	3838	.117	3799	INITIAL TEST			3010	
THE HEM ASSOCIATES 2-24 IS BELIEVED TO BE IN A RESERVOIR SEPARATE FROM THE RESERVOIR IN WHICH THE ROSENBERG 1-24 IS LOCATED, ALTHOUGH BOTH WELLS ARE LIKELY IN THE SAME REEF.											
					FEBRUARY 26, 1979						
Hem Associates #2-24	2-27	165.5	7111TVD	3328	.103	3295	3799	2-28-78	- 504	2591	

STATE OF MICHIGAN

FIELD NAME KALKASKA 28-27N-7W (North) COUNTY Kalkaska TOWNSHIP Kalkaska DATE OF TESTS

PRODUCING FORMATION Sal-Niag. DISCOVERY DATE 8-4-70 VIRGIN PRESSURE 3961 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 6066 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.
				SEPTEMBER 10, 1970						
Longfield 1-28	8-70		7143	3961		3961		1st TEST		
				APRIL 21, 1971						
Longfield 1-28	8-70		7143	3950	.141	3950	3961	9-10-70	- 11	2965
				APRIL 11, 1972						
Longfield 1-28	8-70		7143	3939	.132	3939	3950	4-21-71	- 11	2925
				OCTOBER 7, 1972						
Longfield 1-28	8-70		7143	3937	.140	3937	3939	4-11-72	- 2	
				JANUARY 9, 1973						
Longfield 1-28	8-70		7143	3594	.155	3594	3937	10-7-72	- 343	2448
				MAY 27, 1975						
Longfield 1-28	8-70	70.4	7143	1328	.155*		NOT USED	IN CALCULATIONS		
				MARCH 26, 1976						
Longfield 1-28	8-70	49.6	7173	1444	.042	1443	3594	1-9-73	- 2151	1140

* Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 28B-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 12-75 VIRGIN PRESSURE 3940 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 6104 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				DECEMBER 10, 1975							
Williams #1-28A	12-75	89.2	7113TVD	3940	.141	3940	INITIAL TEST			2945	3400
				OCTOBER 3, 1982							
Williams #1-28A	12-75	30	7165 TVD	1523	.20*	1531	3940	12-10-75	-2409	1066	1074
				(WELL REWORKED PRIOR TO TEST)							

* = Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 28A-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAGARAN DISCOVERY DATE 1-72 VIRGIN PRESSURE 3971 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 6086 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.
				JANUARY 24, 1972						
Myers #2-28	1-72		7114	3937	.269	3949	INITIAL TEST			2946
				SEPTEMBER 27, 1972						
Myers #2-28	1-72		7073	3949	.269	3971	INITIAL TEST			
				MAY 10, 1975						
Myers #2-28	1-72	65.2	7073	3733	.269*	3759	3971	9-27-72	- 212	2790
				DECEMBER 10, 1975						
Myers #2-28	1-72	16	7073	3185	.269	3211	3759	5-10-75	- 548	2390
				JULY 7, 1978						
Myers #2-28	1-72	24.5	7058	979	.027	982	3211	12-10-75	-2229	804
				DECEMBER 4, 1979						
Myers #2-28	1-72	744	7068	303	.008	304	982	7-7-78	-678	245
				JANUARY 25, 1983						
Myers #2-28	1-72	11 da	7073	130	.01	131	304	12-4-79	-173	102

* Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 32-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 6-15-71 VIRGIN PRESSURE 3958 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5998 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				JUNE 30, 1971							
Hallman Murphy #1-32	6-71		7062	3950	.140*	3950	lst	test		2790	
				SEPTEMBER 28, 1972							
Hallman Murphy #1-32	6-71		6980	3947	140	3958	INITIAL TEST				
				MAY 10, 1975							
Hallman - Murphy #1-32	6-71	67.5	6980	2077	.140*	2089	3958	9-28-72	- 1869	1607	
				JULY 29, 1975							
Hallman Murphy #1-32	6-71	278	6980	2011	.08	2018	2089	5-10-75	- 71	1563	
				DECEMBER 24, 1978							
Hallman #1-32	6-71	N.A.	6980	366	.10*	374	2018	7-29-75	-1644	215	Pkr.
				JANUARY 9, 1980							
Hallman #1-32	6-71	49	6980	257	.008	258	374	12-24-78	-116	229	
				APRIL 28, 1983							
Hallman #1-32	6-71	8 da	6980	323	.02	325	NOT USED	IN CALCULATIONS		262	

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME KALKASKA 32A-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-75 VIRGIN PRESSURE 3933 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 6002 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MARCH 31, 1975						
Wichmann #3-32	3-75	N.A.	7087	3933	N.A.	3933	INITIAL TEST				

STATE OF MICHIGAN

FIELD NAME KALKASKA 10-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-78 VIRGIN PRESSURE 3482 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5491 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MARCH 19, 1978						
St. Kalkaska 1-10	3-78	73.5	6501	3482	.260	3482	INITIAL TEST			1809	1871
					JANUARY 25, 1979						
St. Kalkaska 1-16A	1-79	74.3	6510TVD	3227	.333	3225	3482	3-19-78	- 257	1762	2163
					MARCH 8, 1979						
Coe McClintic 2-9A	3-79	46.8	6525TVD	3149	.262	3144	NOT USED IN CALCULATIONS			1504	1845
					APRIL 3, 1979						
St. Kalkaska 1-10	3-78	24.3	6501	3152	.27	3152	3225	1-25-79	- 73	1637	2389
					OCTOBER 18, 1979						
St. Kalkaska 1-10	3-78	51 8	6501	2919	.28	2919				1408	2086
St. Kalkaska 1-16A	1-79	50.3	6501TVD	2694	.275	2696				1918	2059
					Average	2808	3152	4-3-79	- 344		
					SEPTEMBER 17, 1980						
St. Kalkaska 1-10	3-78	48 3	6501	2565	.27	2565	2808	10-18-79	- 243	1604	1845
					FEBRUARY 9, 1981						
St Kalkaska 3-10	2-81	70 3	6487	2599	.30	2595	NOT USED IN CALCULATIONS			1224	1938
St Kalkaska 1-10	3-78	72	6501	2529	.28	2529	2565	9-17-80	- 36	1873	1926
					AUGUST 7, 1982						
St. Kalkaska #1-10	3-78	--	6493	2031	.06	2032				1641	1637
St Kalkaska #3-10	2-81	--	6487	2173	.44	2167				1590	1670
					AVG	2100	2529	2-9-81	-430		

STATE OF MICHIGAN

FIELD NAME KALKASKA 32B-27N-7W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 7-80 VIRGIN PRESSURE 3931 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 6034 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JULY 10, 1980						
Wichmann #4-32	7-80	180	7120 TVD	3931	.14	3931	INITIAL TEST			2917	

The Longfield #1-28 is located in the same 160-acre drilling unit as is the Wichmann #4-32 well.

BOTTOM-HOLE PRESSURE TESTS - Page 2

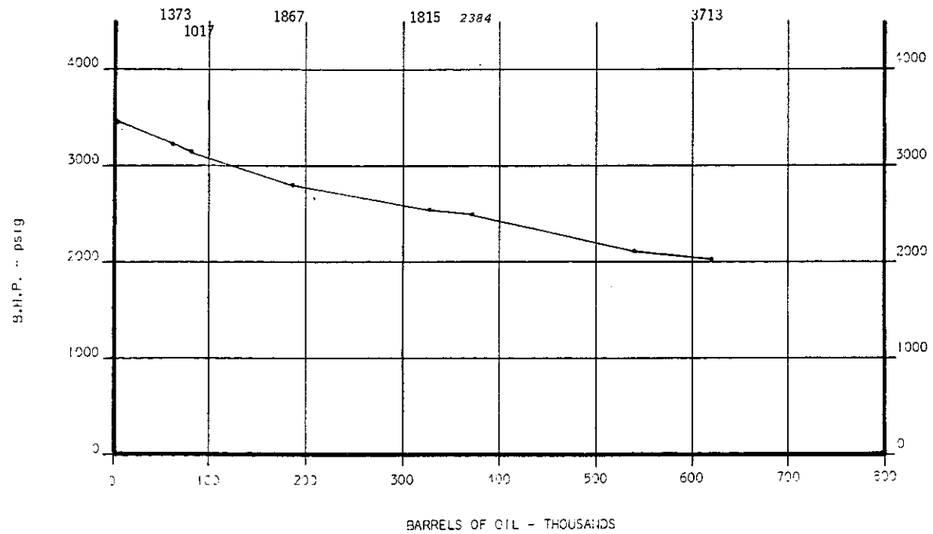
FIELD NAME: KALKASKA 10-27N-8W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5491 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 13, 1983						
St. Kalkaska 1-10	3-78	165 5	6501	1983	.090	1983				1604	1603
St Kalkaska 3-10	2-81	166	6495	2042	090	2040				1629	1630
					AVG	2012	2100	8-7-82	-89		

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 10-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 11-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

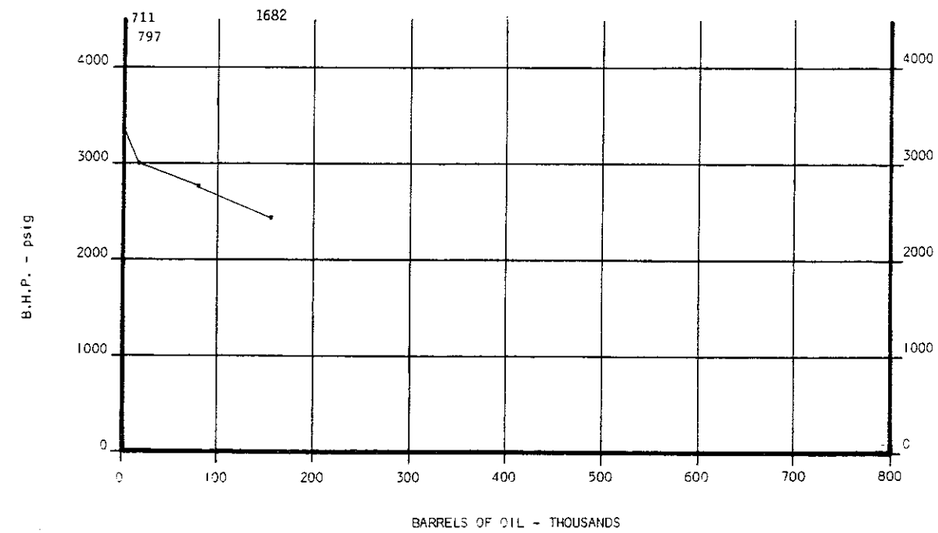
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-24-73 VIRGIN PRESSURE 3377 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5417 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				SEPTEMBER 24, 1973							
Broadwell et al #1-11	9-73	144	6445	3379	.300*	3377	Initial test				
				APRIL 10, 1974							
Broadwell et al #1-11	9-73	27	6438	2990	.300	2990	3379	9-24-73	- 387	1182	2248
				SEPTEMBER 10, 1974							
Broadwell et al #1-11	9-73	24	6438	2320	.300	2320	NOT USED IN CALCULATIONS			757	1651
				APRIL 23, 1975							
Broadwell er al #1-11	9-73	25	6443	1975	.260	1975	NOT USED IN CALCULATIONS				
				OCTOBER 28, 1976							
Broadwell #1-11	9-73	24	6438	2210	.31	2210	NOT USED IN CALCULATIONS			1010	1674
				OCTOBER 7, 1978							
Broadwell #1-11A	9-78	73.5	6420TVD	2760	.28	2770	2990	4-10-74	- 220	1173	1162
				OCTOBER 3, 1979							
Broadwell #1-11A	9-78	25	6430TVD	2441	.302	2445	2770	10-7-78	- 325	1357	1779

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 11-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 12-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-79 VIRGIN PRESSURE 3264 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5339 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 13, 1979						
St. Kalkaska "R"	#3-12 11-79	116.8	6359	3264	.563	3264	INITIAL TEST			322	1166

STATE OF MICHIGAN

FIELD NAME KALKASKA 13-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 10-19-72 VIRGIN PRESSURE 3484 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5472 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			DECEMBER 10, 1972								
St. Kalkaska #1-13	10-72	73	6504	3484	.238	3484	Initial	test			
			APRIL 11, 1973								
St. Kalkaska #1-13	10-72	26	6488	3448	.140	3450	3484	12-10-72	- 34	2614	2617
			SEPTEMBER 26, 1973								
St. Kalkaska #1-13	10-72	27	6488	3367	.124	3367	3450	4-11-72	- 83	2587	2549
			APRIL 10, 1974								
St. Kalkaska #1-13	10-72	24	6438	3301	.120	3307	3367	9-26-73	- 60	2555	2555
			OCTOBER 9, 1974								
St Kalkaska #1-13	10-72	24	6438	3235	.130	3241	3307	4-10-74	-66	2508	2438
			APRIL 23, 1975								
St. Kalkaska #1-13	10-72	25	6493	3169	.150	3169	3241	10-9-74	- 72	2455	2389

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 13-27N-8W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5472 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					MAY 27, 1975						
St -Kalkaska #D-2A-13	5-75	118	6389 IVD	3197	.121	3208	3169	4-23-75	+ 39	2480	2495
					SEPTEMBER 3, 1975						
St.- Kalkaska #D-2A-13	5-75	694	6391 IVD	3136	.120	3148	3208	5-27-75	- 60	2404	2355
					MAY 3, 1976						
St.-Kalkaska #1-13	10-72	24	6493	3074	.130	3074	3148	9-3-75	- 74	2383	2311
					SEPTEMBER 22, 1977						
St. Kalkaska #1-13	10-72	24	6495	2899	.160	2899	3074	5-3-76	- 175	2258	2192
St. Kalkaska "D" #2A-13	5-75	24	6381 IVD	2596	.195	2614	NOT USED	IN CALCULATIONS		2047	2195
					AVERAGE	2756					
					OCTOBER 31, 1978						
St. Kalkaska #1-13	10-72	24.5	6493	2763	.26	2763	2899	9-22-77	- 136	2133	2082
					OCTOBER 3-5, 1979						
St. Kalkaska 1-13	10-72	24.3	6500	2698	.270	2698				1950	2040
St. Kalkaska "D" #2A-13	5-75	42.3	6389TVD	2450	.461	2493				701	
					Average	2596	NOT USED	IN CALCULATIONS			
					SEPTEMBER 16, 1980						
St. Kalkaska 1-13	10-72	24	6500	2624	.09	2624	2763	10-31-78	- 139	2047	1597
					SEPTEMBER 2, 1981						
St. Kalkaska 1-13	10-72	25.8	6500	2583	.270	2583	2624	9-16-80	- 41	1792	1884
					JANUARY 22, 1982						
St. Kalkaska 1-13	10-72	24.8	6510	2540	.100	2539	2583	9-2-81	- 44	1998	1926

REMARKS:

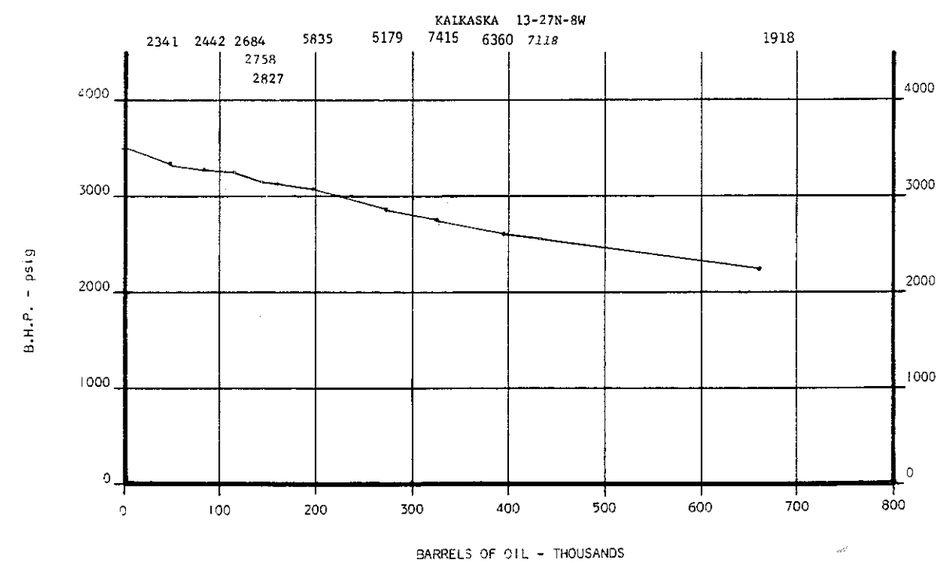
BOTTOM-HOLE PRESSURE TESTS - Page 3

FIELD NAME: KALKASKA 13-27N-8W

OPERATOR LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5472 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JULY 20, 1982						
St. Kalkaska 4-13	7-82	75	6504	2451	.380	2437				951	1108
St. Kalkaska-USA "D" 1-13	10-72	75	6490	2465	.089	2466				1937	1875
					AVG	2452	2539	1-22-82	-88		
					MARCH 31, 1983						
St. Kalkaska 4-13	7-82	25.5	6504	2387	.300	2376					
St. Kalkaska-USA "D" 1-13	10-72	25.5	6490	2344	.300	2347					
					AVG	2362	2452	7-20-82	-90	793	1831
					DECEMBER 19, 1983						
St. Kalkaska 2-14	12-83	79	6536	2235	.280	2225	2362	3-31-83	-137	1080	1661

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



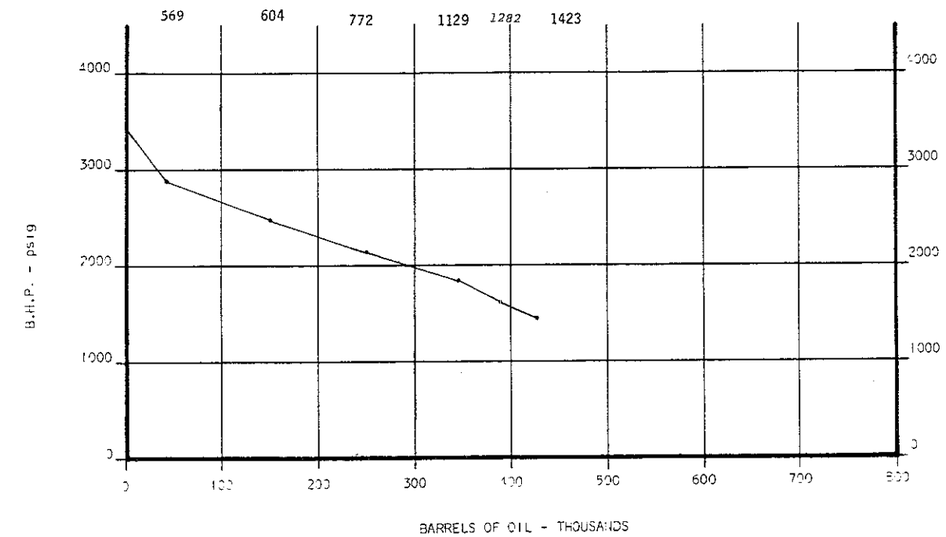
STATE OF MICHIGAN

FIELD NAME KALKASKA 14-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-74 VIRGIN PRESSURE 3566 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5545 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 3, 1974						
State Kalkaska USA #1-14	10-74	N.A.	6566	3566	.246	3566	INITIAL TEST			2685	2684
					APRIL 11, 1978						
State Kalkaska USA #1-14	10-74	N.A.	6572	1189	.04	1189	3566	10-3-74	- 2377	968	991
					APRIL 5, 1979						
St. Kalkaska USA #1-14	10-74	25	6428	942	.03	946	1189	4-11-78	- 243	766	749
					SEPTEMBER 27, 1979						
St Kalkaska USA #1-14	10-74	24	6428	847	.04	853	946	4-5-79	- 93	699	699
					MARCH 6, 1980						
St. Kalkaska USA #1-14	10-74	18 days	6428	796	.02	799	853	9-27-79	- 54	648	661
					SEPTEMBER 16, 1980						
St. Kalkaska USA #1-14	10-74	25	6428	611	.02	614	799	3-6-80	- 185	507	505

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
KALKASKA 19-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 19-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-76 VIRGIN PRESSURE 3404 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5574 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 9, 1976						
St. Kalkaska #2-19B	10-76	72 33	6554 TVD	3404	.50	3404	INITIAL TEST			1654	
					SEPTEMBER 20, 1977						
St. Kalkaska #2-19B	10-76	24	6405 TVD	2949	.289	2992	3404	11-9-76	- 412	1327	
					OCTOBER 18, 1978						
St. Kalkaska #2-19B	10-76	26.3	6462TVD	2462	.327	2494	2992	9-20-77	- 498	972	679
					OCTOBER 4, 1979						
St. Kalkaska 2-19B	10-76	25	6462TVD	2101	.327	2133	2494	10-18-78	- 361	1412	874
					SEPTEMBER 15, 1980						
St. Kalkaska 2-19B	10-76	48.8	6462TVD	1832	.067	1838	2133	10-4-79	- 295	1500	752
					SEPTEMBER 2, 1981						
St Kalkaska 2-19B	10-76	25.8	6500 TVD	1596	.343	1616	1838	9-15-80	- 222	874	864
					SEPTEMBER 30, 1982						
St. Kalkaska 2-19B	10-76	--	6463 TVD	1424	.298	1453	1616	9-2-81	-163	840	833

STATE OF MICHIGAN

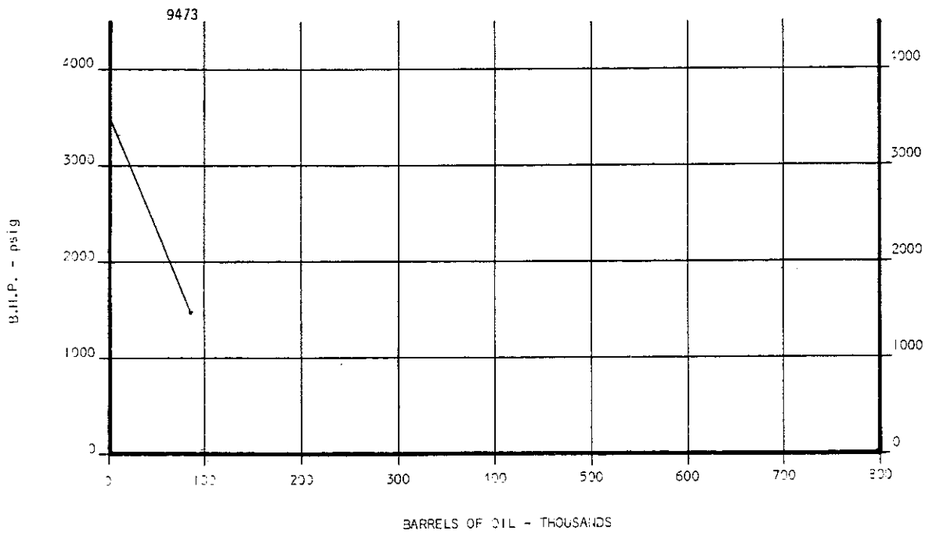
FIELD NAME KALKASKA 20-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-75 VIRGIN PRESSURE 3450* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5438 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				JANUARY 1, 1979							
St. Kalkaska #1-20	11-75	71.8	6422	1493	.56	1493	3450*	11-75	- 1957	14	
				JULY 18, 1982							
USA-St. Kalkaska #4-20	10-82	192	6460	1223	.50**	1197	NOT USED	IN CALCULATIONS		891	887
				AUGUST 11, 1982							
USA-St. Kalkaska #4-20	1-82	773.5	6460	1452	340	1434	1493	1-1-79	-59	1122	977

** = Assumed
*Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
KALKASKA 20-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 20A-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-81 VIRGIN PRESSURE 3400* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5492 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 19, 1981						
USA-St. Kalkaska #3-20	10-81	71.5	6454	2515	.275	2515	INITIAL	TEST		957	1011
					APRIL 8, 1982						
USA-St. Kalkaska #3-20	10-81	72 5	6454	1970	.290	1970	2515	10-19-81	-545	535	1369
					AUGUST 18, 1982						
USA-St. Kalkaska #3-20	10-81	24	6454	1537	.320	1537	1970	4-8-82	-433	690	1067

* Estimated

STATE OF MICHIGAN

FIELD NAME KALKASKA 21-27N-8W (Resr A) COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 2-18-72 VIRGIN PRESSURE 3501 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5591 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			OCTOBER 27, 1972								
Stace Kalkaska 1-22	2-72	26	6578	3508	.272	3501	1st	test		1811	1629
			APRIL 10, 1973								
St. Kalkaska 1-22	2-72	27	6536	3339	.300	3346	3501	10-27-72	- 155	1730	1502
			SEPTEMBER 26, 1973								
St. Kalkaska 1-22	2-72	24	6536	3246	.269	3252	3346	4-10-73	- 94	1653	2507
			APRIL 8, 1974								
St. Kalkaska 1-22	2-72	24	6536	3175	.280	3181	3252	9-26-73	- 71	1552	1565
			OCTOBER 8, 1974								
St Kalkaska 1-22	2-72	24	6536	3083	.300	3089	3181	4-8-74	- 92	1522	2378
			APRIL 22, 1975								
St. Kalkaska 1-22	2-72	26	6541	2962	.300	2969	3089	10-8-74	- 120	1380	2275
			OCTOBER 13, 1975								
St. Kalkaska #1-22	2-72	24	6541	2866	280	2872	2969	4-22-75	- 97	1332	2196
			FEBRUARY 26, 1976								
St Kalkaska #1-22	2-72	48+	6541	2826	.310	2833	2872	10-13-75	- 39	1273	2154

REMARKS:

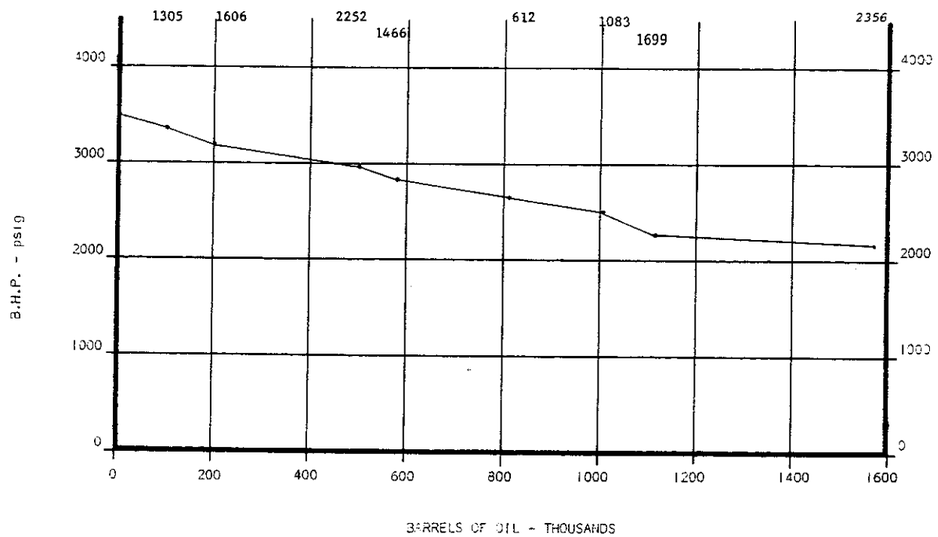
BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 21-27N-8W (RESERVOIR A)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5591 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MARCH 29, 1977						
St. Kalkaska #1-22	2-72	24	6550	2648	.300	2655	2833	2-26-76	- 178	1122	2015
					MARCH 28, 1978						
St. Kalkaska #1-22	2-72	26.5	6432	2472	.280	2511	2655	3-29-77	- 144	1224	1921
					NOVEMBER 11, 1978						
St. Kalkaska #1-22	2-72	70.8	6550	2416	.100	2418	2511	3-28-78	- 93	1914	2176
	GAS INJECTION PROJECT BEGINS JANUARY, 1979										
					OCTOBER 4, 1979						
St Kalkaska 1-15A	10-78	25.5	6444TVD	2304	.078	2317				1823	
St. Kalkaska 1-22	2-72	25.3	6550	2329	.16	2333				1841	1833
					Average	2325	2418	11-11-78	- 93		
					SEPTEMBER 23, 1980						
St. Kalkaska 1-15A	10-78	24	6444TVD	2236	.137	2259				1794	
St. Kalkaska 1-22	2-72	25.5	6550	2239	.32	2240				1349	1749
					Average	2250	2325	10-4-79	- 75		
					SEPTEMBER 11, 1981						
St. Kalkaska 1-22	2-72	24.5	6582	2171	.27	2168	2250	9-23-80	- 82	1562	1564
					SEPTEMBER 22, 1982						
St Kalkaska 1-22	2-72	--	6582	2121	.070	2120	2168	9-11-81	-48	1706	1653
					DECEMBER 5, 1983						
St. Kalkaska #5-22	12-83	71.5	6639	2006	.280	2000	2120	9-22-82	-120	695	PKR

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
KALKASKA 21-27N-8W (RESERVOIR A)



STATE OF MICHIGAN

FIELD NAME KALKASKA 21-27N-8W (Resr B) COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-72 VIRGIN PRESSURE 3284 NO. PRODUCING WELLS

A-1 SECTION

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5591 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	
					AUGUST 2, 1972						
State Kalkaska 3-22	5-72	?	6597	3283	.285	3284	1st	test		1480	Pkr.
					APRIL 10, 1973						
State Kalkaska 3-22	5-72	27	6591	3132	.300	3134	3284	8-2-72	-150	1510	Pkr.
					SEPTEMBER 27, 1973						
State Kalkaska 3-22	5-72	52	6591	2856	.286	2858	3134	4-10-73	-276	1305	Pkr.
					APRIL 8, 1974						
State Kalkaska 3-22	5-72	30	6591	2460	.280	2462	2858	9-27-73	-396	1288	Pkr.
					OCTOBER 8, 1974						
State Kalkaska 3-22	5-72	27	6591	2373	.300	2375	2462	4-8-74	- 87	1260	Pkr.
					APRIL 22, 1975						
State Kalkaska 3-22	5-72	29.5	6595*	2167	.300	2167*	2375	10-8-74	- 208	1216	Pkr.
					OCTOBER 15, 1975						
St. Kalkaska 3-22	5-72	24	6596	2020	.300	2022	2167	4-22-75	- 145	1177	Pkr.

* Estimated, bomb did not get below 4000 feet.

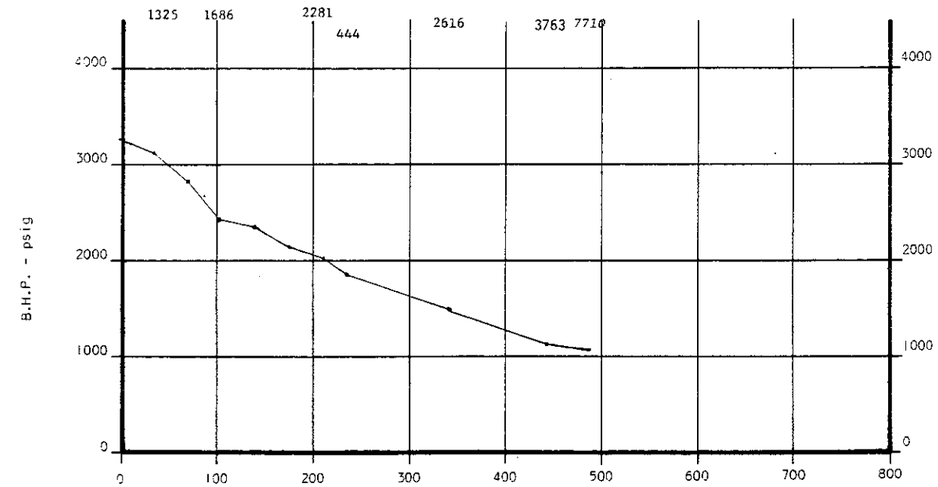
BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 21-27N-8W (A-1 SECTION) (RESERVOIR B)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5591 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					FEBRUARY 28, 1976						
State Kalkaska 3-22	5-72	96	6596	1866	.350	1869	2022	10-15-75	- 153	1236	
					MARCH 29, 1977						
State Kalkaska 3-22	5-72	24	6596	1284	.310	1286	NOT USED IN CALCULATIONS			1006	
					NOVEMBER 6, 1977						
State Kalkaska 3-22	5-72	26.3	6606	1355	.300	1354	1869	2-28-76	- 515	965	87
					OCTOBER 18, 1978						
St. Kalkaska 3-22	5-72	24	6606	1108	.32	1111	NOT USED IN CALCULATIONS			786	845
				GAS INJECTION STARTED JAN., 1979							
					OCTOBER 5, 1979						
St. Kalkaska 3-22	5-72	24.5	6606	1124	.32	1127	1354	11-6-77	- 227	849	885
					SEPTEMBER 23, 1980						
St. Kalkaska 3-22	5-72	26	6320	1076	.332	1174	NOT USED IN CALCULATIONS			514	792
					SEPTEMBER 2, 1981						
St Kalkaska 3-22	5-72	25.5	6291	942	.346	1054	1127	10-5-79	- 73	478	639
					AUGUST 26, 1982						
St Kalkaska 3-22	5-72	--	6606	1002	.090	1003	NOT USED IN CALCUATIONS			830	829
					OCTOBER 24, 1983						
St. Kalkaska 6-22A	10-83	72	6587 TVD	1396	.314	1394	1054	9-2-81	+340	312	401

REMARKS

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
KALKASKA 21-27N-8W (A-1 Section) (Reservoir B)



STATE OF MICHIGAN

FIELD NAME KALKASKA 21-27N-8W (RESR.C) COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

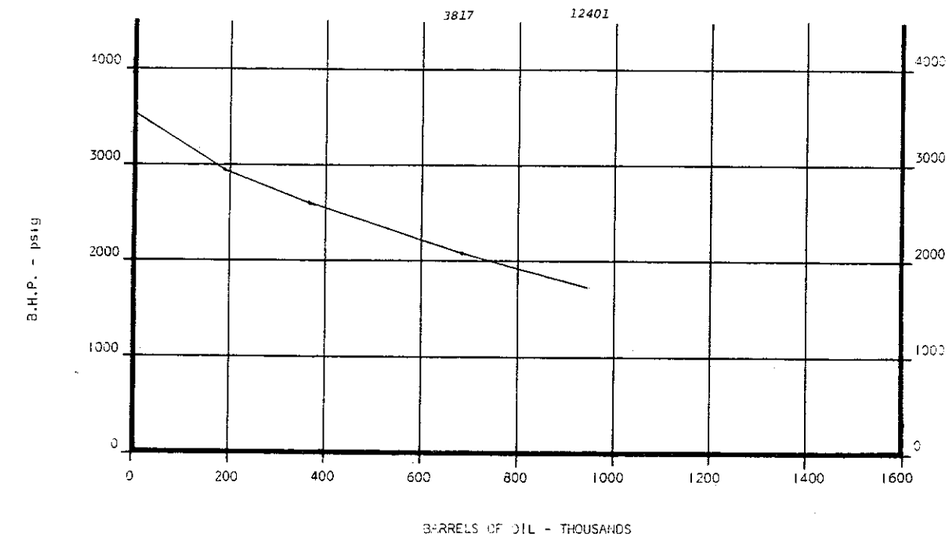
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-72 VIRGIN PRESSURE 3600* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5591 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 8, 1974						
St. Kalkaska 2-22	8-72	27	6606	2942	.280	2940	3600	8-72	- 560	1316	2215
					AUGUST 11, 1975						
St. Kalkaska 4-22	8-75	N.A.	6642	2608	.310	2598	2940	4-8-74	- 342	1116	1181
					NOVEMBER 6, 1977						
St. Kalkaska 2-22	8-72	73.6	6570	2050	.080	2053				1635	
St. Kalkaska 4-22	8-75	27.4	6635	2119	.28	2110				1234	1652
					AVERAGE	2082	2598	8-11-75	- 516		
Gas pressure maintenance project began December 14, 1977											
					OCTOBER 10, 1979						
St. Kalkaska 2-22	8-72	25	6615	2013	.072	2013				1578	
St. Kalkaska 4-22	8-75	24.5	6635	1995	.280	1988				1552	1482
					Average	2001	2082	11-6-77	- 81		
					OCTOBER 25, 1980						
St. Kalkaska 2-22	8-72	24.8	6615	1913	.210	1912				1530	
St. Kalkaska 4-22	8-75	25.5	6635	1875	.180	1871				1492	1465
					Average	1892	2001	10-10-79	-109		
					SEPTEMBER 16, 1981						
St Kalkaska 4-22	8-75	24	6625	1712	.08	1711	1892	10-25-80	- 181	1375	1361

* Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 21-27N-8W (RESERVOIR C)



BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: KALKASKA 21-27N-8W (RESR. C)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5591 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					SEPTEMBER 26, 1982						
St Kalkaska 4-22	8-75	--	6635	1584	.300	1577	1711	9-16-81	-134	1219	1220

REMARKS:

STATE OF MICHIGAN

FIELD NAME KALKASKA 21-27N-8W (Reservoir D & E) COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-3-71 VIRGIN PRESSURE 3574 NO. PRODUCING WELLS

KALKASKA 21-27N-8W (South)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5591 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					AUGUST 17, 1971						
State Kalkaska 1-21	8-3-71		6600	3574	.300*	3574		1st test		1897	2100
					OCTOBER 27, 1972						
State Kalkaska 1-21	8-3-71	28	6627	3397	.258	3390	3574	8-17-71	- 184	1706	1613
					APRIL 11, 1973						
St. Kalkaska 1-21	8-3-71	48	6588	3165	.360	3168	3390	10-27-72	- 222	1533	2289
					SEPTEMBER 27, 1973						
St. Kalkaska 1-21	8-71	52	6588	3038	.275	3041	3168	4-11-73	- 127	1397	2338
					APRIL 8-9, 1974						
St. Kalkaska 1-21	8-71	48	6588	2919	.250	2922				1509	2246
St. Kalkaska 1-28	7-72	51	6581	2914	.280	2917				1621	2202
St. Kalkaska 3-28	10-73	55	6590	2927	.280	2927				1449	1479
					Average	2922	3041	9-27-73	- 119		
					OCTOBER 7, 1974						
St. Kalkaska 1-21	8-71	24	6588	2776	.100	2779	2922	4-8-74	- 143	2180	2142

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 21-27N-8W (RESERVOIR D & E)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5591 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 22, 1975						
St. Kalkaska 1-21	8-71	26	6593	2617	.080	2618	2779	10-7-74	- 161	2057	2015
					OCTOBER 13, 1975						
St. Kalkaska 1-21	8-71	24	6593	2395	.100	2396	2618	8-11-75	- 222	1910	1871
					FEBRUARY 26, 1976						
St. Kalkaska 1-21	8-71	48+	6593	2287	.080	2288	2396	10-13-75	- 108	1831	1782
GAS PRESSURE MAINTENANCE PROJECT BEGAN NOVEMBER 11, 1976											
					MARCH 25, 1977						
St. Kalkaska 1-21	8-71	24	6575	2047	.30	2058	2288	2-26-76	- 230	1145	1642
					MARCH 28, 1978						
St. Kalkaska 1-21	8-71	25.5	6575	2040	.28	2050	2058	3-25-77	- 8	1224	1642
					OCTOBER 12, 1979						
St Kalkaska 1-21	8-71	28.5	6625	2061	.43	2055				1625	1621
St. Kalkaska 1-28	7-72	30.3	6532	2084	267	2103				1633	
St. Kalkaska 3-28	10-73	since 7/74	6596	2219	.29	2220					
					Average	2126	2050	3-28-78	+ 76		
					SEPTEMBER 25-26, 1980						
St. Kalkaska 1-21	8-71	24.3	6625	2043	.07	2042				1633	1598
St. Kalkaska 1-28	7-72	26.5	6461	2047	.06	2056				1651	
St. Kalkaska 3-28	10-73	26.8	6596	2184	.15	2185				1744	1521
					Average	2094	2126	10-12-79	- 32		
					SEPTEMBER 10, 1981						
St. Kalkaska #1-21	8-71	25	6625	1962	.08	1961	2094	10-26-80	- 133	1599	1702

REMARKS:

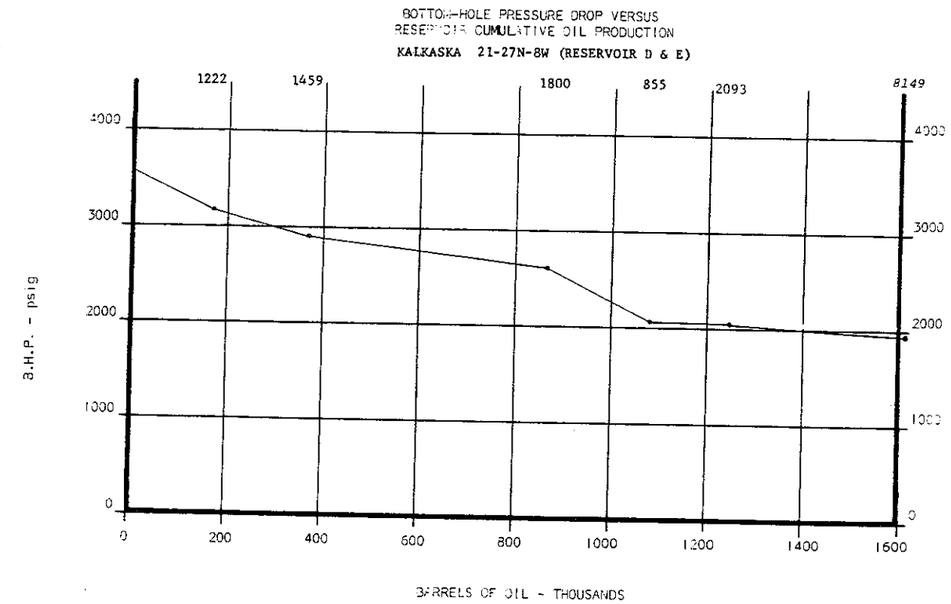
BOTTOM-HOLE PRESSURE TESTS - Page 3

FIELD NAME: KALKASKA 21-27N-8W (RESERVOIR D & E)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5591 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JULY 18, 1982						
St. Kalkaska 3-28	10-73	70.8	6676	2029	.10*	2021	NOT USED IN CALCULATIONS			1302	1620
					SEPTEMBER 28, 1982						
St. Kalkaska 1-21	7-71	--	6625	1794	.06	1793	1961	9-10-81	-168	1447	1475

* = Assumed

REMARKS:



STATE OF MICHIGAN

FIELD NAME KALKASKA 24-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-14-73 VIRGIN PRESSURE 3498 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5354 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 22, 1973						
St. Kalkaska 1-24	6-73	66	6585	3498	.300*	3498	INITIAL TEST			1742	1850
					APRIL 12, 1974						
St. Kalkaska 1-24	6-73	26.5	6490	3166	.210	3186	3498	6-22-73	- 312	2382	2550
					OCTOBER 15, 1974						
St. Kalkaska 1-24	6-73	24	6490	3019	.130	3031	3186	4-12-74	- 155	2321	2389
					APRIL 7, 1975						
St. Kalkaska 1-24	6-73	26	6490	2896	.160	2911	3031	10-15-74	- 120	2239	2331
					OCTOBER 15, 1975						
St. Kalkaska 1-24	6-75	24	6490	2761	.120	2772	2911	4-7-75	- 139	2153	2238
					MAY 13, 1976						
St. Kalkaska "F" #1-24	6-73	24	6490	2635	.109	2645	2772	10-15-75	- 127	2057	2150
					APRIL 15, 1977						
St. Kalkaska "F" #1-24	6-73	50.2	6490	2541	.282	2568	2645	5-13-76	- 77	1045	1962

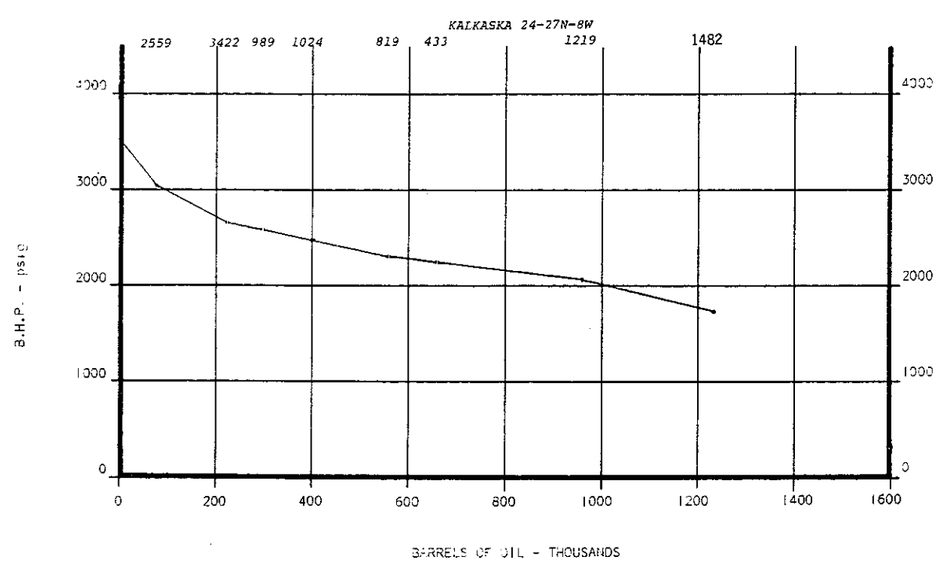
REMARKS: * Assumed

KALKASKA 24-27N-8W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5554 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					APRIL 18, 1978						
St. Kalkaska "F" #1-24	6-73	48	6490	2451	.286	2478	2568	4-16-77	-90	1079	
					OCTOBER 24, 1979						
St. Kalkaska "F" 1-24	6-73	56.3	6490	2286	.296	2314	2478	4-18-78	-164	990	1796
					JULY 15, 1980						
St. Kalkaska "F" 2-24	5-80	48.5	6596	2251	.313	2249	2314	10-24-79	- 65	1154	1310
					JULY 14, 1981						
St. Kalkaska "F" #2-24	5-80	47 3	6596	2117	.281	2116	2249	7-15-80	- 133		
					JANUARY 5, 1982						
St. Kalkaska "F" #2-24	5-80	67.5	6596	2032	.281	2031	2116	7-14-81	- 85	1227	1128
					JULY 20, 1983						
St. Kalkaska "F" #2-24	5-80	45	6625	1773	.544	1755	2031	1-5-82	-276	910	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

FIELD NAME KALKASKA 25-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-72 VIRGIN PRESSURE 3500 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5531 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
				OCTOBER 15, 1975							
St.-Kalkaska "B" #1-25	7-72	24	6548	1445	050	1445	NOT USED IN CALCULATIONS			1179	1166
				APRIL 28, 1977							
St. Kalkaska "B" #1-25	7-72	432	6548	1565	.047	1565	3500	7-72	- 1935	1274	1273
				JANUARY 15, 1978							
St. Kalkaska "B" #1-25	7-72	99.5	6548	1528	.047	1529	1565	4-28-77	- 36	1236	1218
				OCTOBER 6, 1978							
St. Kalkaska "B" 1-25	7-72	97.8	6548	1002	.029	1002	1529	1-15-78	-527	823	811
				NOVEMBER 23, 1981							
St. Kalkaska "B" #3-25	11-81	63 8	6528 TVD	2108	057	2109	NOT USED IN CALCULATIONS			1705	862
				JUNE 30, 1982							
St. Kalkaska "B" #1-25	7-72	24	6550	1741	.529	1740	2109	11-23-81	-369	463	121
				NOVEMBER 15, 1983							
St. Kalkaska "B" #3-25	11-81	120	6528 TVD	1007	.028	1008	1740	6-30-82	-732	821	822

* Estimated

STATE OF MICHIGAN

FIELD NAME KALKASKA 25A-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-74 VIRGIN PRESSURE 3543 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5727 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					DECEMBER 6, 1974						
State Kalkaska "I" #1-25	11-74	88	6750	3543	.140	3543	INITIAL TEST				
					APRIL 17, 1977						
St. Kalkaska "I" #1-25	11-74	98	6750	1697	.024	1697	3543	12-6-74	- 1846	1385	1386
					JANUARY 14, 1978						
St. Kalkaska "I" #1-25	11-74	72.5	6750	1262	.080	1262	1697	4-17-77	- 435	1014	1078
					OCTOBER 6, 1978						
St. Kalkaska "I" #1-25	11-74	96.3	6750	965	.040	966	1262	1-14-78	- 296	784	805
					NOVEMBER 16, 1981						
St. Kalkaska "I" #1-25	11-74	73.3	6750	214	.008	214	966	10-6-78	- 752	171	179

STATE OF MICHIGAN

FIELD NAME KALKASKA 26-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-30-73 VIRGIN PRESSURE 3517 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5650 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JULY 21, 1973								
St. Kalkaska "G" #1-26	6-73	72	6675	3517	N.A.	3517	INITIAL TEST				
			AUGUST 1, 1973								
St. Kalkaska "G" #1-26	6-73	49	6675	3497	.135	3497	3517	7/73	-20		
			AUGUST 28, 1973								
St. Kalkaska "G" #1-26	6-73	66	6750	3481	.168	3468	3497	8/73	-29		
			APRIL 12, 1974								
St. Kalkaska "G" 1-26	6-73	31	6675	3162	.140	3162	3468	8/28/73	- 306		
			OCTOBER 16, 1974								
St. Kalkaska "G" 1-26	6-73	24	6675	3019	.110	3019	3162	4-12-73	- 143	2301	2339
			APRIL 7, 1975								
St. Kalkaska "G" 1-26	6-73	24.8	6675	2839	110	2839	3019	10-16-74	- 180	2198	2552

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 26-27N-8W

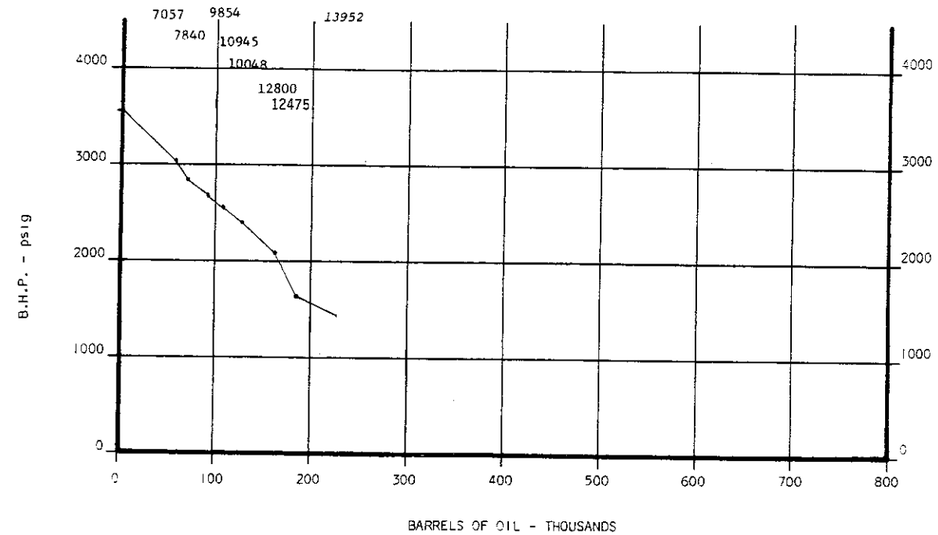
OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5650 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	
					OCTOBER 15, 1975						
St. Kalkazka 'G" #1-26	6-73	24	6700	2681	.092	2679	2839	4-7-75	- 160	2095	2140
					MAY 14, 1976						
St. Kalkaska "G" #1-26	6-73	24	6699	2552	.084	2550	2679	10-15-75	- 129	1997	2045
					DECEMBER 27, 1976						
St. Kalkaska "G" #1-26	6-73	117.8	6700	2407	.084*	2405	2552	5-14-76	- 147	1667	1897
					APRIL 25, 1978						
St. Kalkaska "G" #1-26	6-73	120	6789	2145	.512	2087	2405	12-27-76	- 318	1460	1670
					APRIL 11, 1979						
St. Kalkaska "G" 1-26	6-73	24	6789	1679	.311	1644	2087	4-25-78	- 443	1098	1347
					FEBRUARY 26, 1981						
St. Kalkaska "G" #1-26	6-73	41.5	6789	1511	329	1473	1644	4-11-79	- 171	1028	1182

* Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 26-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 28-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 12-15-71 VIRGIN PRESSURE 2882 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5735 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			FEBRUARY 16, 1972								
Schoch #1	12-71	120	6720	2882	550	2882	1st	test		535	1600

REMARKS:

STATE OF MICHIGAN

FIELD NAME KALKASKA 29-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-82 VIRGIN PRESSURE 2826 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5574 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					FEBRUARY	27, 1982					
St. Kalkaska #3-29A	2-82	119.3	6291 TVD	2420	340	2420	INITIAL	TEST		678	1374
					APRIL 9,	1982					
St. Kalkaska #3-29A	2-82	337.3	6585 TVD	2826	.440	2826	INITIAL	TEST			

STATE OF MICHIGAN

FIELD NAME KALKASKA 31-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 10-83 VIRGIN PRESSURE 2891 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 3,	1983					
St. Kalkaska "Q" #1-31	10-83	4 yrs.	6610	2891	150	2891	INITIAL	TEST		2244	

STATE OF MICHIGAN

FIELD NAME KALKASKA 30-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 3473 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5565 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JANUARY 18, 1974						
St. Kalkaska U.S.A. #1-30	1-74	70.5	6502 TVD	3473	.304	3473	INITIAL	TEST		2713	2782
					APRIL 11, 1978						
St. Kalkaska U.S.A. #1-30	1-74	N.A.	6508 TVD	2441	.105	2440	3473	1-18-74	- 1033	1930	1595
					APRIL 10, 1979						
St. Kalkaska U.S.A. #1-30	1-74	25	6508TVD	2209	.067	2209	2240	4-11-78	- 231	1759	1765
					SEPTEMBER 27, 1979						
St. Kalkaska USA #1-30	1-74	32	6508TVD	2133	.06	2133	2209	4-10-79	- 76	1713	1698
					APRIL 29, 1980						
St. Kalkaska USA #1-30	1-74	54.8	6480TVD	2008	.067	2009	2133	9-27-79	- 124	1613	
					SEPTEMBER 24, 1980						
St. Kalkaska USA #1-30	1-74	25.5	6480TVD	1928	.096	1930	2009	4-29-80	- 79	1563	1541
					AUGUST 11, 1982						
St. Kalkaska-USA #1-30	1-74	--	6480 TVD	1450	.038	1451	1930	9-24-80	-479	1195	1195

STATE OF MICHIGAN

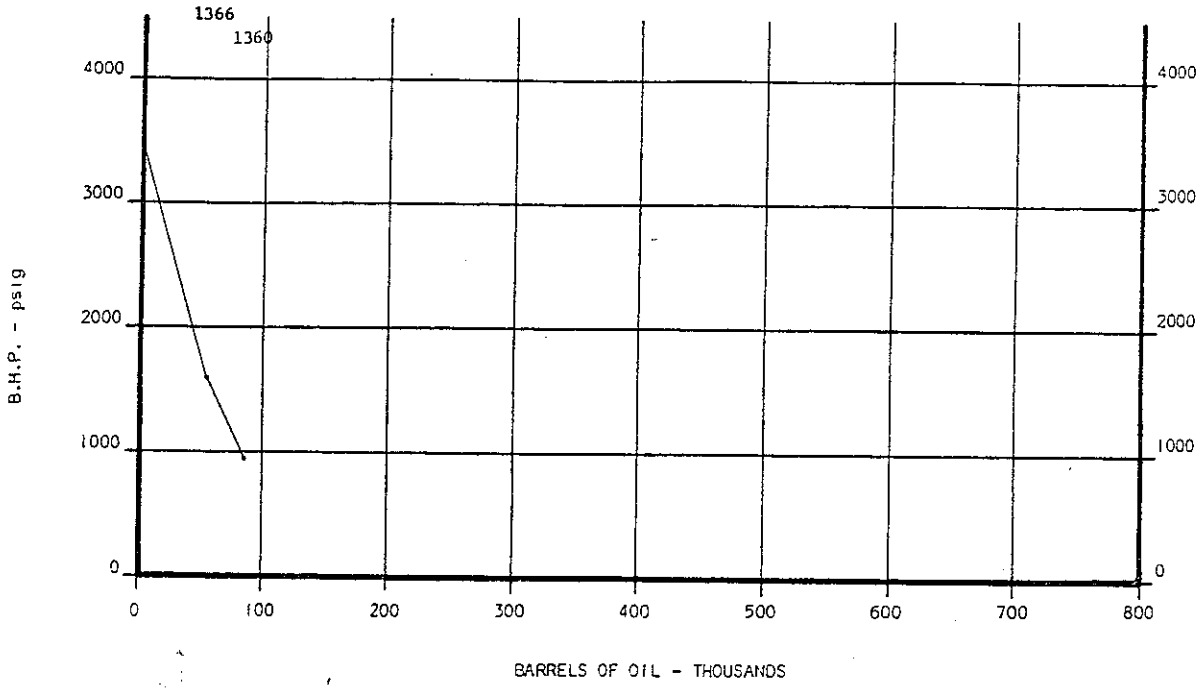
FIELD NAME KALKASKA 32-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 3477 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5589 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					FEBRUARY	17, 1975					
State Kalkaska "L" #1-32	2-75	48	6589	3477	.2564	3477	INITIAL	TEST			
					OCTOBER 14, 1975						
St.-Kalkaska U.S.A #2-32	10-75	139	6563	2379	.30	2385	INITIAL	TEST			
Assumption incomplete buildup" 5 PSI/Hr. at 139 Hours											
					MARCH 10,	1977					
St. Kalkaska "L" #1-32	2-75	25.25	6589	1600	.301	1600	3477	2-17-75	- 1877	671	997
					MAY 5, 1978						
St. Kalkaska "L" #1-32	2-75	24	6589	951	.557	952	1600	3-10-77	- 648	118	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

KALKASKA 32-27N-8W



STATE OF MICHIGAN

FIELD NAME KALKASKA 33-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-20-72 VIRGIN PRESSURE 3646 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @5648 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			NOT AVAILABLE								
St. Kalkaska #1a-33	9-72		6652 TVD	3646	.177	3646	INITIAL TEST				
			AUGUST 2, 1973								
St. Kalkaska #1a-33	9-72	24	6624 TVD	2167	.073	2169	3646	N. A.	- 1477		
			SEPTEMBER 26, 1973								
St. Kalkaska 1a-33	9-72	26	6624 TVD	1490	.047	1491	2169	8-2-73	- 678	1188	1230
Cumulative production to 10/1/73 713 MMcf and 24,425 Bbls. Cond.											
			APRIL 12, 1974								
St. Kalkaska 1a-33	9-72	26	6652 TVD	1125	.050	1125	1491	9-26-73	- 366	913	1000
Cumulative production to 4/1/74 888 MMcf and 25,105 Bbls. cond.											
			JUNE 15, 1978								
St. Kalkaska 1a-33	9-72	N.A.	6751 TVD	252	008	251	1125	4-12-74	- 874	204	
Cumulative production to 6/1/78 1294 MMcf and 25,823 Bbls. Condensate											
			DECEMBER 13, 1978								
St. Kalkaska #1a-33	9-72	160	6659TVD	145	.086	144	251	6-15-78	- 107	113	

REMARKS:

STATE OF MICHIGAN

FIELD NAME KALKASKA 35-27N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-15-73 VIRGIN PRESSURE 3608 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5582 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JANUARY, 1973								
St. Kalkaska "E" #1-35	1-73		6600	3608	143	3608	INITIAL TEST				
			AUGUST 2, 1973								
St. Kalkaska "E" #1-35	1-73	24	6564	2442	086	2442	3608		- 1166		
			SEPTEMBER 26, 1973								
St. Kalkaska "E" 1-35	1-73	24	6600	1968	.070	1968	2442	8-2-73	- 474	1560	N.A.
			APRIL 15, 1974								
St Kalkaska "E" 1-35	1-73	25	6600	1201	040	1201	1968	9-26-73	- 767	984	1000
				* Cumulative production to 4/1/74 2625 MMcf and 74,139 Bbls. cond.							
			OCTOBER 15, 1974								
St. Kalkaska "E" 1-35	1-73	24	6600	914	.090	914	1201	4-15-74	- 287	744	747
				* Cumulative production to 10/15/74 3124 MMCF and 74,785 BBLS. Cond.							

REMARKS: * Production only from the State Kalkaska "E" 1-35

BOTTOM-HOLE PRESSURE TESTS - Page 2

KALKASKA 35-27N-8W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5582 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					APRIL 7, 1975						
State Kalkaska "E" #1-35	1-73	27	6658	658	.025	657	914	10-15-74	- 257	541	605
				Cumulative production to 4/7/75 3403 MMcf and 75098 Bbls. condensate							
					OCTOBER 21, 1976						
St. Kalkaska "E" #1-35	1-73	26.5	6606	265	.007	265	657	4-7-75	- 392	216	
				Cumulative production to 10/1/76 3899 MMcf and 75,337 Bbls. condensate							
					APRIL 29, 1977						
St. Kalkaska "E" #1-35	1-73	456	6596	180	.008	180	265	10-21-76	- 85	136	186
				Cumulative production to 4/30/77 4010 MMcf and 76,185 bbls. condensate							
					JANUARY 14, 1978						
St. Kalkaska "E" #1-35	1-73	N.A.	6596	126	.010	126	180	4-29-77	- 54	88	102
				Cumulative production to 12/31/77 4155 MMcf and 76,117 bbls. condensate							
					SEPTEMBER 23, 1978						
St Kalkaska "E" #1-35	1-73	59.8	6596	57	.002	57	126	1-14-78	- 69	43	
				Cumulative production to 9/30/77 4231 MMcf and 76,774 bbls. condensate							
					JANUARY 15, 1981						
St. Kalkaska "E" #1-35	1-73	N.A.	6596	42	.003	42	57	9-23-78	- 15	26	
				Cumulative production to 1/31/81 4 292 MMcf and 78,333 bbls. condensate							
					MAY 19, 1981						
St. Kalkaska "E" #1-35	1-73	---	6800	106.0	514	3	42	5-2-81	- 39		

REMARKS:

STATE OF MICHIGAN

FIELD NAME RAPID RIVER S-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 12-75 VIRGIN PRESSURE 3121 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4798 FEET: CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				APRIL 29, 1978							
Innis #1-5	12-75	71.5	5900	3121	.10*	3121	INITIAL TEST				
				MAY 27, 1978							
Innis #2-5	5-78	42.5	5863	3058	.10*	3062	INITIAL TEST				
				OCTOBER 26, 1978							
Biehl St. Rapid River #3-5	10-78	57	5782	3103	.181	3114	INITIAL TEST			2391	2393

*Estimated

STATE OF MICHIGAN

FIELD NAME RAPID RIVER 24-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 12-15-70 VIRGIN PRESSURE 3454 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET: CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				DECEMBER 15, 1970							
St. Rapid River 1-24 (A)	12-70		6612	3460	300*	3454	1st	test			
				APRIL 25, 1971							
St. Rapid River 1-24 (A)	12-70		6612	3059?							
				JUNE 4, 1971							
St. Rapid River 1-24 (S)	6-71	DAYS	6627	3362	464	3349	3454	12-15-70	- 105	2100	
				DECEMBER 9, 1971							
St. Rapid River 1-24 (A)	12-70		6600	3320	120	3318	3349	6-4-71	- 31	2559	
				FEBRUARY 10, 1972							
St. Rapid River 1-24 (S)	12-70		6627	3335	.300*	3327				2531	
Spencer 2-24	8-71		6645	3330	.300*	3317				2250	
				AVERAGE		3322	3318	12-9-71	+ 4		
				OCTOBER 31, 1972							
St. Rapid River #1-24 (A)	12-70	24	6612	3127	.120	3125					
Spencer 2-24	8-71	28	6648	3209	.131	3203				2499	2450

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

RAPID RIVER 24-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5550 FEET: CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 31, 1972						
Eckfeld 1-25	6-71	26	6620	3136	.110	3133				2435	2550
St. Rapid River 1-26	5-71	30	6616	3136	.240	3130				2376	2550
St. Rapid River 1-24 (S)	6-71	20	6631	3196	.210	3189					
					AVERAGE	3156	3322	2-10-72	- 166		
					APRIL 11 - 12, 1973						
St. Rapid River 1-24 (A)	12-70	48	6612	3060	.080	3058				2370	2500
St. Rapid River 1-26	5-71	28	6616	3058	.260	3051				2275	2500
Spencer 2-24 (S)	8-72	23	6420	3093	.110	3113				2395	Pkr.
					AVERAGE	3074	3156	10-31-72	- 82		
					JUNE 28, 1973						
St. Coldsprings 1-19	6-73	72	6635	3073	.265	3082	NOT USED IN CALCULATIONS			2120	2350
					OCTOBER 16, 1973						
St. Rapid River 1-24 (A)	12-70	29	6612	2968	.120*	2973				2324	2375
St. Rapid River 1-26	5-71	29	6616	2964	.120	2969				2288	2325
Spencer 2-24	8-72	25	6643	3005	.120	3006				2327	Pkr.
					AVERAGE	2983	3074	4-12-73	- 19		
					JANUARY 12, 1974						
St. Rapid River 4-24	1-74	63	6640	2964	.280	2972	2983	10-16-73	- 11	2291	---
					MAY 2, 1974						
St. Rapid River 1-24 (A)	12-70	32	6612	2901	.214	2908				2227	2430

* Assumed

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 3

RAPID RIVER 24-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5550 FEET: CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MAY 2, 1974 (Continued)						
St. Rapid River 1-26	5-71	33	6616	2887	.259	2893				2197	2280
Spencer 2-24	8-72	28	6643	2914	.120	2915				2255	Pkr.
					AVERAGE	2905	2972	1-12-74	- 67		
					OCTOBER 10, 1974						
St. Rapid River #1-24	12-70	26	6612	2793	.080	2792				2176	1910
St. Rapid River #1-26	5-71	24	6616	2791	.250	2788				2077	2172
Spencer #2-24	8-71	24	6643	2831	.100	2827				2200	Pkr.
St Coldsprings #1-19	6-73	28	6635	2846	.270	2855				1967	2208
					AVERAGE	2811	2905	5-2-74			
					APRIL 3, 1975						
St. Rapid River #1-24	12-70	24.5	6612	2698	.100	2697				2112	1850
St. Coldsprings #1-19	6-73	25	6635	2763	.270	2777				1997	1685
					AVERAGE	2737	2811	10-10-74	- 74		
					OCTOBER 8, 1975						
St. Rapid River #4-24	1-74	24	6641	2639	.110	2636				2060	200
Spencer #2-24	8-71	25	6643	2660	.100	2657				2064	Pkr.
St. Coldsprings #1-19	6-75	24	6635	2660	.072	2662				2090	2080
					AVERAGE	2652	2737	4-3-75	- 85		
					MAY 5, 1976						
St Rapid River #4-24	1-74	24	6641	2517	.18	2513				1992	Pkr
Spencer #2-24	8-71	26	6643	2518	07	2515				1993	Pkr.

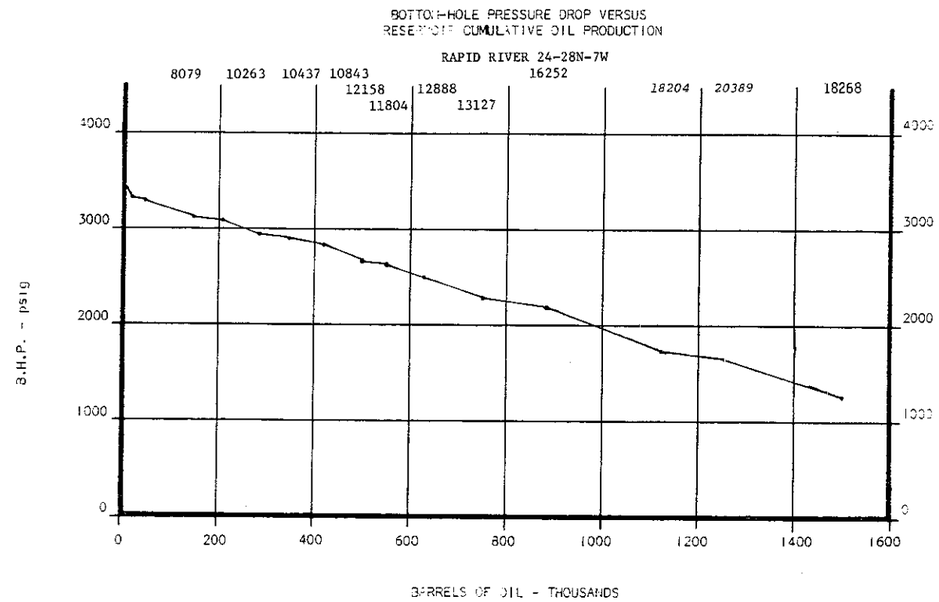
REMARKS:

RAPID RIVER 24-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MAY 5, 1976 (Continued)						
St. Coldsprings #1-19	6-75	24	6635	2569	.256	2578				1844	1990
					AVERAGE	2535	2652	10-8-75	- 117		
					APRIL 18, 1977 (#1-19); APRIL 20, 1977 (#1-25, #2-24)						
Eckfeld #1-25	6-71	26.5	6620	2332	.082	2331				1602	
Spencer #2-24	8-71	49	6643	2170	.110	2167					
St. Coldsprings #1-19	6-75	25.3	6635	2402	.244	2410				1869	1863
					AVERAGE	2303	3535	5-5-76	- 232		
					MAY 25, 1978						
St. Rapid River #1-24	12-70	23	6628	2184	.07	2183	2303	4-18-77	- 120	1726	
					JULY 6, 1978						
Simpson "P" 3A-19	7-78	70.3	6642 TVD	2218	.10*	2216	NOT USED IN CALCULATIONS				
					OCTOBER 18, 1979						
St. Rapid River 1-24	12-70	72.3	4950	1827	.058	1923	2183	5-12-78	- 260	1547	1522
					JULY 22, 1980						
St Rapid River 2-26	7-80	129	6625	1793	.24	1787	1923	10-18-79	- 136	620	
					JULY 14, 1981						
St. Coldsprings #1-19	6-75	53	6635	1728	052	1727				1395	1444
St. Rapid River #1-26	5-71	53	6616	1616	.276	1613				1235	1155
					Average	1670	1787	7-22-80	- 117		

* Estimated

REMARKS:



STATE OF MICHIGAN

FIELD NAME: RAPID RIVER 24-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5550 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 22-24, 1982						
St. Rapid River "C" 1-26	5-71	--	6616	1466	103	1469				615	1100
St Rapid River 1-24	12-70	--	5000	1259	.106	1434				809	1115
St Coldsprings "B" 1-19	6-75	--	6635	1597	.100	1600				1051	
					AVG	1501	1670	7-14-82	-169		
					DECEMBER 19, 1983						
St. Rapid River "C" 1-26	5-71	23	6616	1184	.043	1186				976	867
St. Rapid River 1-24	12-70	25	6612	1194	.527	1210				796	793
Simpson "P" 3A-19	7-78	23	5500	1306	.040	1353				1102	1137
					AVG	1250	1501	4-24-82	-251		
					JANUARY 26, 1984						
Priest 1-19A	1-83	41	6695 TVD	1499	.386	1498	NOT USED IN CALCULATIONS			337	

REMARKS:

FIELD NAME RAPID RIVER 24s-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-15-72 VIRGIN PRESSURE 3559 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					AUGUST 15, 1972						
Waier 3-24	8-72	4	6469	3518	.300*	3559	Initial Test				
					APRIL 12, 1973						
Waier 3-24	8-72	45	6417	3388	.300	3449	3559	8-15-72	- 110	1633	Pkr

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME RAPID RIVER 27-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 6-15-72 VIRGIN PRESSURE 3393 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JUNE 30, 1972								
Wloskinski 1-27	6-72	66.4	6500	3369	.264	3393	1st	test		2340	
			NOVEMBER 2, 1972								
Wloskinski 1-27	6-72	days	6500	3110	.310	3138 *	3393	6-30-72	- 255	2329	2450
			MARCH 23, 1973								
Wloskinski 1-27	6-72	24	6500	3210	.560	3262	3138	11-2-72	+ 124	2016	2075
			OCTOBER 9, 1973								
Curtis et al 2-27	10-73	48	6526	3205	.295	3219	3262	3-23-73	- 43	1502	
			OCTOBER 16, 1973								
Wloskinski 1-27	6-72	31	6500	2894	260	2921**				2148	1850
Hill Finsterwald 1-27	4-73	32	6529	3188	.320	3213	3219	10-9-73	- 6	2255	2200
			FEBRUARY 26, 1974								
Flook #1-26	2-74	65	6535	3074	.275	3093	3213	10-16-73	- 120	--	--
			MAY 1, 1974								
Wloskinski 1-27	6-72	27	6501	2711	.257	2737**				2083	2100
Hill Finsterwald 1-27	4-73	31	6529	3107	.279	3128	3213	10-16-73	- 85	2126	2085

REMARKS: * Pressure appears to be incorrect
** Not used in calculations

BOTTOM-HOLE PRESSURE TESTS - Page 2

RAPID RIVER 27-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					NOVEMBER 19, 1974						
Flook #1-26	2-74	Shut-in Since completion	6535	2988	27	3007	3128	5-1-74	-121	1770	
					OCTOBER 8, 1975						
Hill Finsterwald #1-27	4-73	24	6529	2698	095	2705	3007	11-19-74	- 302	2096	2093
					MAY 6, 1976						
Hill Finsterwald #1-27	4-73	24	6529	2557	.111	2566	2705	10-8-75	- 139	1998	1985
					OCTOBER 28, 1976						
Hill Finsterwald #1-27	4-73	27.75	6529	2462	.091	2477	2566	5-6-76	- 89	1921	1808
					DECEMBER 7, 1977						
Hill Finsterwald #1-27	4-73	29.3	6529	2237	.163	2250	2477	10-28-76	- 227	1744	1772
					MAY 17, 1979						
Hill Finsterwald #1-27	4-73	66.5	6529	1970	.062	1974	2250	12-7-77	- 276	1568	1577
					APRIL 30, 1980						
Hill Finsterwald 1-27	4-73	25	6529	1794	.101	1811	1974	5-17-79	- 163	1431	1459
					NOVEMBER 10, 1982						
Curtis-St. Rapid River 2-27	9-73	25	6404	1382	.05	1390	1811	4-30-80	-421	1127	
					NOVEMBER 14, 1982						
Wloskinsi 1-27	1-82	71.8	6475	1283	038	1288	1390	11-10-82	-102	1050	

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 3

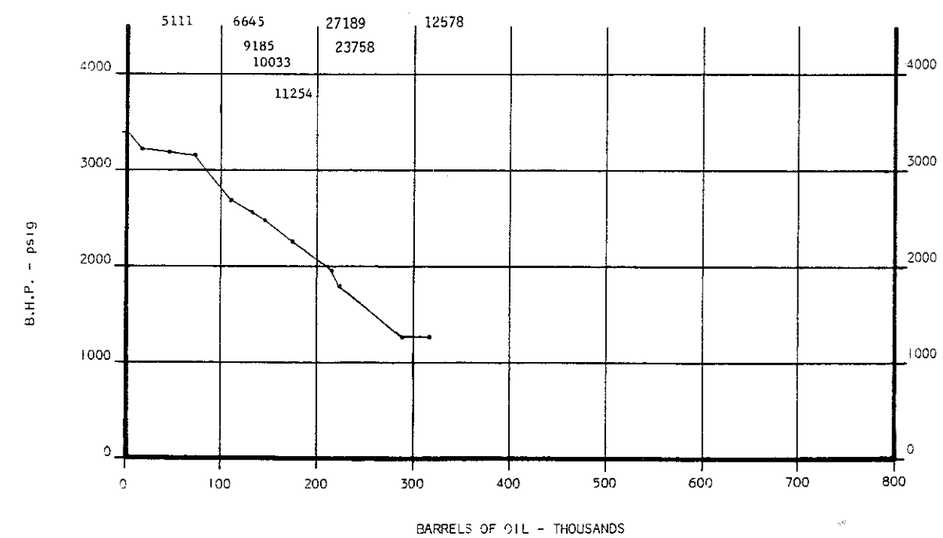
FIELD NAME: RAPID RIVER 27-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 30, 1983						
Hill-Finsterwald	1-27 4-73	23	6525	1265	.05*	1272	1288	11-15-82	-16	1022	

* = Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
RAPID RIVER 27-28N-7W



STATE OF MICHIGAN

FIELD NAME RAPID RIVER 27a-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 7-30-72 VIRGIN PRESSURE 3415 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET: CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			SEPTEMBER 23, 1972								
Curtis 1-27	7-72	19.5	6556	3377	.305	3386	1st	test		1959	
			OCTOBER 5, 1972								
St. Rapid River "D" 1-27	10-72		6512	3372	300*	3391					
			OCTOBER 31, 1972								
Curtis 1-27	7-72	961	6560	3406	.250	3415	3386	9-22-72	+ 29	1712	Pkr.
			APRIL 10 - 12, 1973								
Curtis 1-27	7-72	64.5	6555	3345	.290	3353				2122	Pkr.
St. Rapid River "D" 1-27	10-72	26	6517	3316	.550	3348 / 3351	3415	10-31-72	- 64	1178	2300
			OCTOBER 15, 1973								
Curtis 1-27	7-72	25	6556	3241	.250	3235	3351	4-12-73	- 116	2186	Pkr.
			MARCH 15, 1974								
Simpson "F" 1-27	3-74	66	6530	3127	.268	3137	3235	10-15-73	- 98		

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

RAPID RIVER 27A-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET: CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					MAY 2, 1974						
Curtis #1-27	7-72	26	6556	3067	.240	3061					
Raybourn 1-34	4-74	66	6550	3140	.525	3163					
					Average	3112	3137	3-15-74	- 25		
					OCTOBER 10, 1974						
Curtis 1-27	7-72	25	6556	2958	.220	2953	3112	5-2-74	- 159	2106	Pkr.
					APRIL 3, 1975						
Simpson "F" 1-27	3-74	26.5	6530	2820	.530	2856				1887	1638
Raybourn 1-34	4-74	27.8	6550	2816	.550	2840				1193	2117
Curtis 1-27	7-72	25.8	6556	2786	.37	2796				1881	Pkr.
					Average	2831	2953	10-10-74	- 122		
					OCTOBER 8, 1975						
Curtis #1-27	7-72	27	6556	2557	.240	2567	2831	4-3-75	- 264	1865	400
					MAY 6, 1976						
Curtis #1-27	7-72	28	6556	1927	.54	1942	NOT USED IN CALCULATIONS			1431	Pkr.
					OCTOBER 28, 1976						
Raybourn #1-34	4-74	25.75	6469	2319	.339	2361	NOT USED IN CALCULATIONS			1551	1817
					FEBRUARY 21, 1977						
Raybourn #1-34	4-74	N.A.	6469	2339	.505	2402	2567	10-8-75	- 165	900	1169
					November 14, 1978						
Raybourn #1-34	4-74	748.5	6469	1963	.522	2028	2402	2-21-77	- 374	0	1158
					SEPTEMBER 8, 1980						
Raybourn #1-34	4-74	48.5	6469	1756	.507	1819	2028	11-14-78	- 209	0	0

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 3

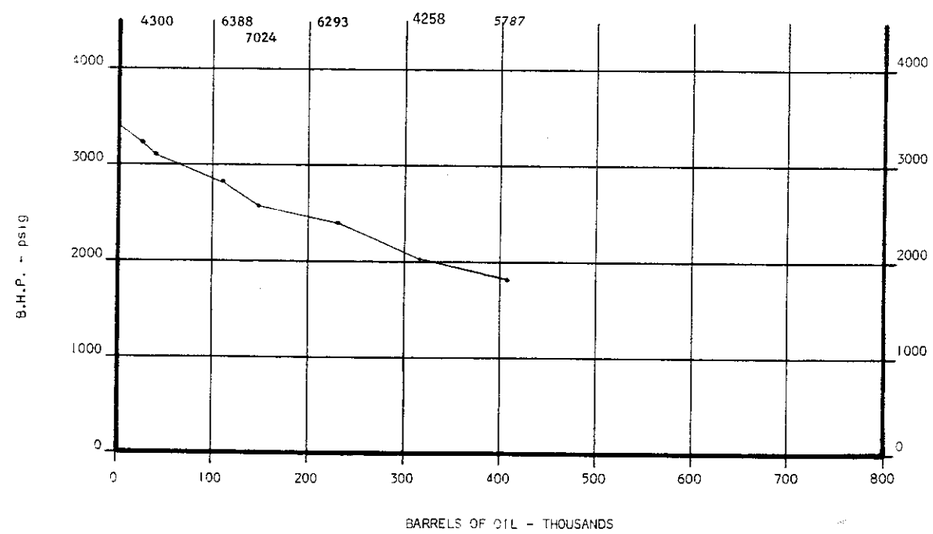
FIELD NAME: RAPID RIVER 27a-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET: CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					FEBRUARY 12, 1981						
Simpson "F" #1-27	3-74	0 0	6490	1759	.482	1811	1819	9-8-80	- 8	0	0

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

RAPID RIVER 27a-28N-7W



FIELD NAME RAPID RIVER 32-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 7-6-73 VIRGIN PRESSURE 3514 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5407 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			AUGUST 22, 1973								
Rapid River #1-32	7-73	21	6425 TVD	3514	.275	3514	INITIAL TEST				
			MARCH 4, 1974								
Rapid River #3-32	2-74	63	6438	3392	.260	3394	3514	8-22-73	- 120		
			APRIL 9, 1974								
Rapid River 1-32	7-73	245	6425 TVD	3351	.290	3351	3394	3-4-74	- 43		
			AUGUST 19, 1974								
Seely et al #2-32	8-74	50	6394 TVD	3198	.250	3210	3351	4-9-74	- 141		
			OCTOBER 10, 1974								
Rapid River 1-32	7-73	25	6424 TVD	3164	.300	3164	3351	4-9-74	- 187	1344	Pkr.
			NOVEMBER 19, 1974								
Broe-State Rapid River #3-32	3-74	Shut-in since completion	6439	3158	.280	3160	3164	10-10-74	+ 4	1283	
			APRIL 3, 1975 (1-32); April 9, 1975 (1-29)								
Rapid River 1-32	7-73	26	6424 TVD	2877	.190	2877				1450	Pkr.
Simpson 1-29	4-75	112.9	6390 TVD	2901	.30*	2913				1240	
					Average	2895	3160	11-19-74	- 265		

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

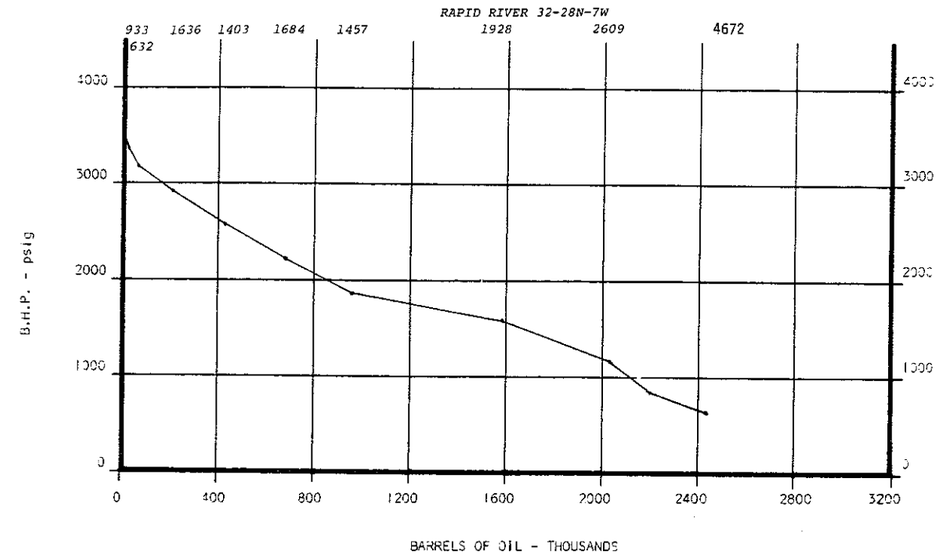
RAPID RIVER 32-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5407 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 8, 1975						Pkr
Rapid River #1-32	7-73	29.5	6424 TVD	2557	.27	2561	2895	4-3,9-75	- 334	1858	700
					MAY 7, 1976						
Rapid River #1-32	7-73	25	6424 TVD	2273	.43	2273				1170	Pkr
Broe St. Rapid River #3-32	3-74	26	6438	2140	.35	2143				1008	
					AVERAGE	2208	2561	10-8-75	- 353		
					FEBRUARY 11, 1977						
Tralles #4-32	11-74	52	6418 TVD	1811	.27	1816	2208	5-7-76	- 392	169	
					APRIL 11, 1979						
St. Rapid River "J" #1-28	4-79	140	6444	1567	.527	1556	1816	2-11-77	- 260	384	375
					FEBRUARY 15, 1981						
St. Rapid River "J" #1-28	4-79	20.8	6410	1185	170	1187	1556	4-11-79	- 369	96	712
					SEPTEMBER 26, 1982						
St. Rapid River "J" #1-28	4-79	48.8	6444	817	018	817	1187	2-15-81	-370	683	
					JANUARY 13, 1984						
St. Rapid River "J" #1-28	4-79	63	6444	637	.02*	637	817	9-26-82	-180	0	0

* = Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME RAPID RIVER 33-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 6-71 VIRGIN PRESSURE 3437 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JUNE 1971								
St. Rapid River "B" #1-33	6-71	N.A.	6529	3407	.300*	3420	Initial Test, not built-up				
			MAY 3, 1972								
St. Groff #2-33	3-72	N.A	6584	3441	.300	3437				2173	
			JULY 11, 1972								
Beam-St. #4-33	7-72	N.A.	6524	3425	300*	3436				2500	1375
			OCTOBER 30, 1972								
St. Rapid River "B" #1-33	6-71	25	6529	3333	.120	3338	3436	7-11-72	- 98	2543	2600
			APRIL 10, 1973								
St. Rapid River "B" #1-33	6-71	29	6529	3247	.120	3252	3338	10-30-72	- 86	2476	2450
			OCTOBER 12, 1973								
St. Rapid River "B" #1-33	6-71	24	6529	3140	.110	3146	3252	4-10-73	- 106	2732	2400
			OCTOBER 14, 1974								
St. Rapid River "B" #1-33	6-71	24	6529	2966	.110	2972	3146	10-12-73	- 174	2263	1800

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

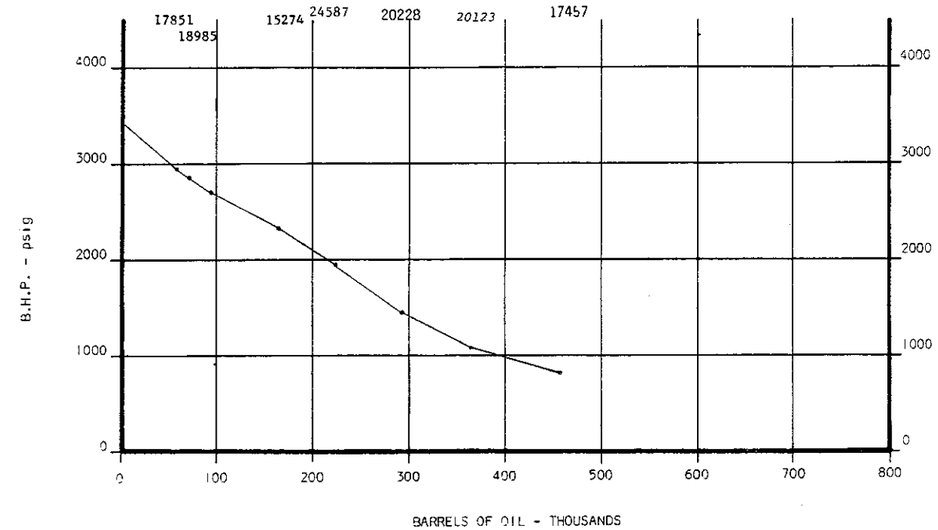
RAPID RIVER 33-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 23, 1975						
St. Rapid River "B" #1-33	6-71	40.6	6529	2860	.108	2866	2966	10-14-74	- 100	2153	2200
					OCTOBER 8, 1975						
St. Rapid River "B" #1-33	6-71	40	6529	2976	1.22 (Mud)		NOT USED IN CALCULATIONS			2123	2123
					MARCH 3, 1976						
St. Groff #2-33	3-72	31 Days	6565	2742	.050	2743				2029	
Beam St. #4-33	7-72	14 Days	6518	2731	.27	2746				2023	
					AVERAGE	2745	2866	4-23-75	- 121		
					MAY 11, 1976						
St. Rapid River "B" #1-33	6-71	24	6529	2709	.111	2715	2745	3-3-76	- 30	2082	2072
					MAY 6, 1977						
St. Rapid River "B" #1-33	6-71	24.5	6529	2326	.087	2331	2715	5-11-76	- 384	1806	1807
					JUNE 12, 1978						
St. Rapid River "B" #1-33	6-71	24	6529	1946	.064	1950	2331	5-6-77	- 381	1554	1534
					SEPTEMBER 28, 1979						
Beam St. #4-33	7-72	65.3	6317	1463	.10	1489	1950	6-12-78	- 461		
					MARCH 14, 1981						
St. Rapid River "B" #1-33	6-71	47.8	6529	1270	.036	1272	1489	9-28-79	- 217	1032	1042
					MARCH 30, 1981						
Beam State #4-33	7-72	24	6518	1088	.07	1085	1272	3-14-81	- 187	890	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

RAPID RIVER 33-28N-7W



STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS - Page 3

FIELD NAME: RAPID RIVER 33-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 14, 1983						
St. Rapid River "B" #1-33	6-71	45	6529	803	460	828	1085	3-30-81	-257	537	

REMARKS:

FIELD NAME RAPID RIVER 33a-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 3-72 VIRGIN PRESSURE 3353 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5500 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			MARCH 13, 1972								
St. Groff #1-33	3-72	8	6516	3342	.300	3353	Initial Test			1819	
			AUGUST 11, 1972								
St. Rapid River #3-33	8-72	21.3	6519	3327	.300	3337	3353	3-13-72	- 16	2110	
			OCTOBER 30, 1972								
St. Groff #1-33	3-72	26	6519	3257	.250	3264	3337	8-11-72	- 73	2250	2307
			APRIL 10, 1973								
St. Groff #1-33	3-72	24.5	6330	2987	.560	3109	3264	10-30-72	- 155	1948	Pkr.
			OCTOBER 12, 1973								
St. Groff #1-33	3-72	26	6515	2770	.480	2786	3109	4-10-73	- 323	1791	Pkr.
			MAY 2, 1974								
St. Groff #1-33	3-72	1464	6515	3272	.550	3290*	2786	10-12-73	+ 504	943	Pkr.
			SEPTEMBER 12, 1974								
St. Groff #1-33	3-72	198	6516	2544	.560	2562	3290	5-2-74	- 728	269	Pkr.
			JANUARY 13, 1975								
St. Rapid River #3-33	8-72	N.A.	6490	2449	.520	2481	2562	9-12-74	- 81	1444	

REMARKS: * Probably represents true Bottom-hole pressure

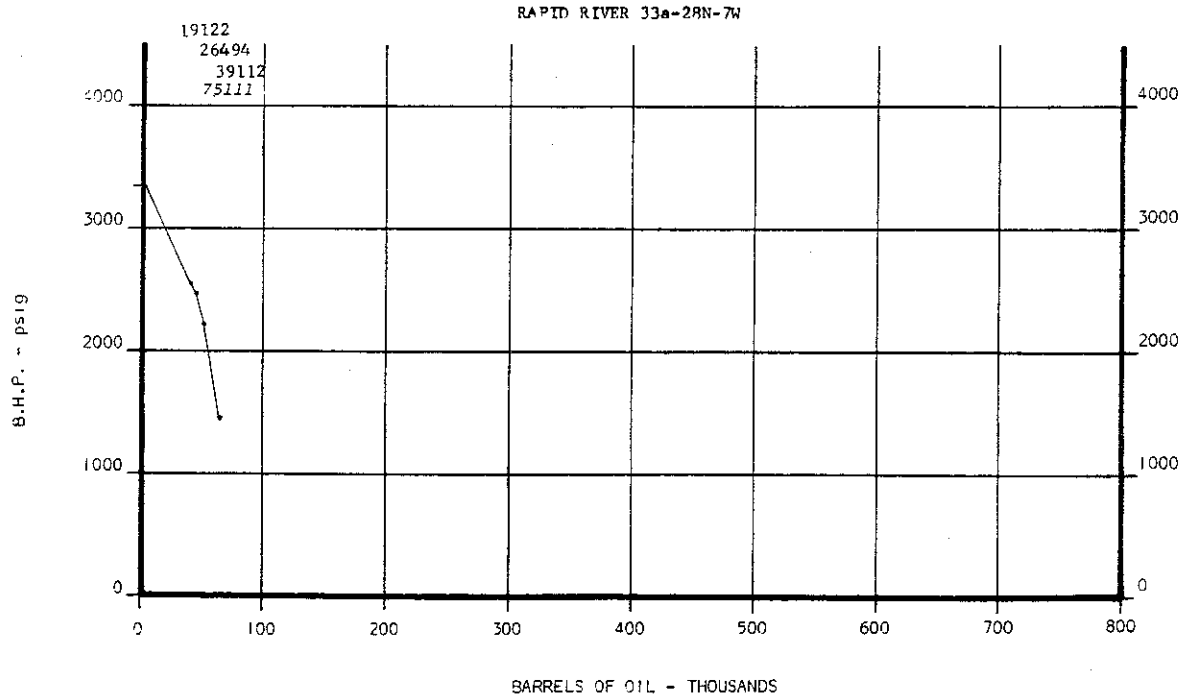
RAPID RIVER 33A-28N-7W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 5500 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					APRIL 23, 1975						
St. Groff #1-33	3-72	26	6516	2397	.53	2361	2481	1-13-75	- 120	1433	1500
					OCTOBER 8, 1975						
St. Groff #1-33	3-72	30.5	6516	2207	.53	2232	2361	4-23-75	- 129	1308	600 Pkr
					MARCH 30, 1976						
St. Rapid River #3-33	8-72	63.4	64.60	2155	.070	2162	NOT	USED IN CALCULATIONS		1700	
					APRIL 12, 1976						
St. Groff #1-33	3-72	62.3	6451	2185	.073	2193	2232	10-8-75	- 39		
					MAY 6, 1976						
St. Groff #1-33	3-72	25	6515	2139	.07	2141	2193	4-12-76	- 52	1666	Pkr.
					OCTOBER 29, 1981						
St. Groff #1-33	3-72	49	6432	1441	.04	1446	2141	5-6-76	- 695	1174	
					NOVEMBER 14, 1983						
St. Groff #1-33	3-72	26	6503	1440	.03	1441	1446	10-29-81	-5	1181	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

RAPID RIVER 33a-28N-7W



STATE OF MICHIGAN

FIELD NAME RAPID RIVER 35-28N-7W COUNTY KALKASKA TOWNSHIP RAPID RIVER DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-73 VIRGIN PRESSURE 3469 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5654 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			OCTOBER 4, 1973								
St. Rapid River 1-35	10-73	N.A.	6732	3469	.115	3469	INITIAL TEST				
			MARCH 11, 1974		(M.P.S.C.	4-Point	test)				
St. Rapid River 1-35	10-73		6614	3392	.115*	3394	3469	10-4-73	- 75		
			MAY 8, 1975								
St. Rapid River 1-35	10-73	6	6613	1476	.115*	1491	3394	3-11-74	- 1903		
			APRIL 1, 1976								
St Rapid River 1-35	10-73	5	6614	867	.023	870	1491	5-8-75	- 621		
			OCTOBER 25, 1976								
St. Rapid River 1-35	10-73	30	6675	806	.021	807	870	4-1-76	- 63	664	671
			JANUARY 13, 1978								
St. Rapid River 1-35	10-73	194.8	6675	465	.01	466	807	10-25-76	- 341	377	350

REMARKS: * Assumed

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 1-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 1-83 VIRGIN PRESSURE 2300 * NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JANUARY 7, 1983						
Myers #2-1	1-83	22	4600	346	.540	INITIAL	TEST			44	383
			(NOT BUILD-UP PRESSURE)								

* ESTIMATED

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 2A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-79 VIRGIN PRESSURE 2271 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3645 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					MAY 5, 1980						
Myers Olson #1-2	5-80	62.3	4415	2271	.307	2271	INITIAL	TEST		1068	1127
					OCTOBER 27, 1981						
Myers Olson #1-2	5-80	28	4415	1548	.316	1548	NOT USED	IN CALCULATIONS		593	1241
					DECEMBER 14, 1981						
Bowling #2-35	12-81	109	4411 TVD	1706	.315	1707	2271	5-5-80	-564	715	0
					SEPTEMBER 16, 1982						
Bowling #2-35	12-81	46	(4411 TVD)	1297	.313	1298	1707	12-14-81	-409	450	20

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 2-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 6-74 VIRGIN PRESSURE 2359 NO. PRODUCING WELLS

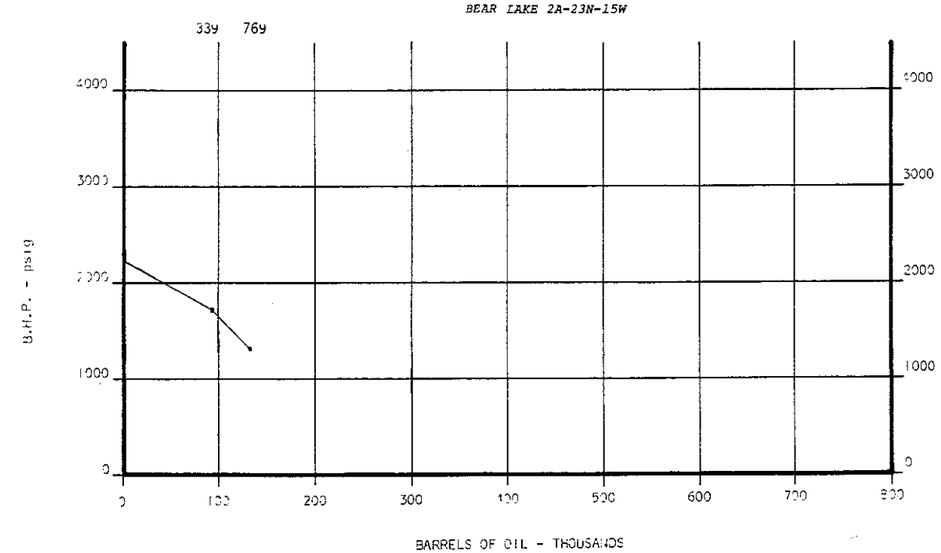
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3654 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JUNE 16, 1974								
Anderson #1-2	6-74	42	4570	2359	.092	2359	Initial	Test		1966	
			NOVEMBER 7, 1975								
Anderson #1-2	6-74	60 Days	4568	2337	.078	2337	2359	6-16-74	- 22	1946	
			DECEMBER 7, 1977								
Anderson #1-2	6-74	45.7	4568	2334	.078*	2334	2337	11-7-75	- 3		
			JULY 3, 1978								
Anderson #1-2	6-74	68	4506	2146	.076	2151	2334	12-7-77	- 183	1812	
			JANUARY 24, 1980								
Anderson #1-2	6-74	45	4547	1800	.065	1801	2151	7-3-78	- 350	1510	

* Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

BEAR LAKE 2A-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 8-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-79 VIRGIN PRESSURE 2253 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3486 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					OCTOBER 3, 1979					
Smith #1-8	8-79	30 days	4357	2253	.077	2253	INITIAL TEST			1914

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 10-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-74 VIRGIN PRESSURE 2393 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3633 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG
					NOVEMBER 20, 1974					
Darbee-Brannan #1-10	11-74	35	4506	2393	N.A.	2393	INITIAL TEST (Gas well)			1991
					JUNE 15, 1977					
Darbee Brannan #1-10	11-74	162.5	4506	2304	.093	2305	2393	11-20-74	- 88	1930
			146,000 Mcf gas production and 3500 bbl. condensate production							
					SEPTEMBER 13, 1977					
Darbee-Brannan #1-10	11-74	30 Days	4506	2307	.069	2308	NOT USED IN CALCULATIONS			1930
			146,000 Mcf gas production and 3500 bbl. condensate production							
					NOVEMBER 26, 1977					
Dansby #2-15	11-17	63.4	4486	2248	.10*	2249	2305	6-15-77	- 56	1885
			146,000 Mcf gas production and 3500 bbl. condensate production							
					JANUARY 6, 1978					
Dansby #2-15	11-77	Since Completion	4486	2203	.081	2204	2249	11-26-77	- 45	1857
			280,000 Mcf gas production and 5700 bbl. condensate production							
					JULY 3, 1978					
Darbee-Brannan 1-10	11-74	68	4506	1680	.055	1680	2204	1-6-78	- 524	1437

* Estimated

BOTTOM-HOLE PRESSURE TESTS - Page 2

BEAR LAKE 10-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 3633 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					JUNE 20, 1979					
Dansby #2-15	11-77	54	4487	1305	.039	1305	1680	7-3-78	- 375	1130
					AUGUST 23, 1982					
Darbee Brannon #1-10	11-74	--	4506	1202	06	1202	1305	6-20-79	-103	1043

REMARKS:

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 11-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 9-74 VIRGIN PRESSURE 2342 NO. PRODUCING WELLS

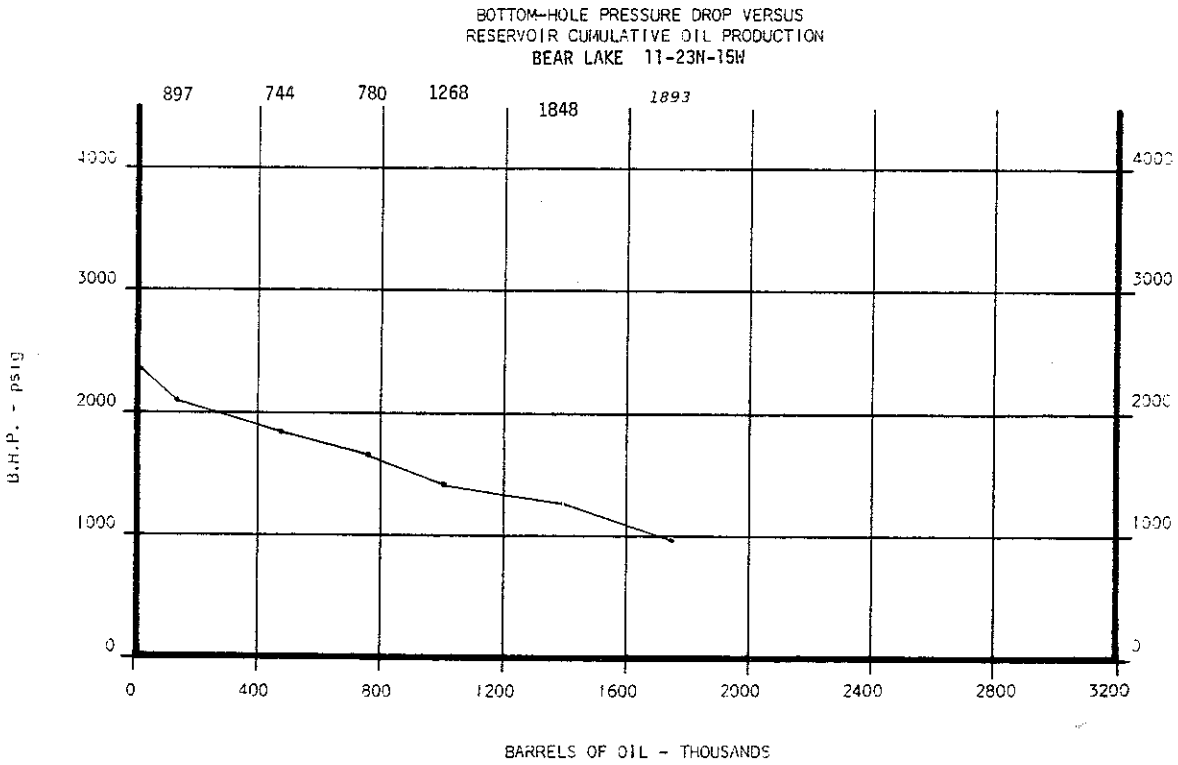
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3845 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					SEPTEMBER 24, 1974						
Osborn #1-11	9-74	60	4706	2342	.350	2342	Initial Test				
					OCTOBER 1 (#2-11) 2 (#1-11)	1975					
Osborn #2-11	10-75	42.6	4728	2251	.350	2253				1015	
Osborn #1-11	9-74	72	4706	2247	.29	2247				1008	
					Average	2250	2342	9-24-74	- 92		
					APRIL 2, 1976						
Osborn #1-11	9-74	30	4706	2095	.32	2090	2250	10-1-75	- 160	913	Pkr
					APRIL 6, 1977						
St. Bear Lake 2-14	10-75	51	4705	1857	.317	1854	2090	4-2-76	- 236	1390	
					DECEMBER 14, 1977						
St. Bear Lake 2-14	10-75	24.5	4705	1665	.307	1662	1854	4-6-77	- 192	1266	1266
					SEPTEMBER 26, 1978						
St. Bear Lake 2-14	10-75	24	4705	1497	.317	1494	1662	12-14-77	- 168	1182	1182
					JANUARY 31, 1979						
St. Bear Lake 2-14	10-75	26	4610	1395	327	1423	1494	9-26-78	- 71	1130	
					FEBRUARY 29, 1980						
Osborn #2-11	10-75	48	4728	1277	.17	1278	1423	1-31-79	- 145		

REMARKS:

FIELD NAME: BEAR LAKE 11-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 3845 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
					FEBRUARY	7, 1981				
Osborn #1-11	9-74	47.3	4706	952	.29	960	1278	2-29-80	- 318	

REMARKS:



STATE OF MICHIGAN

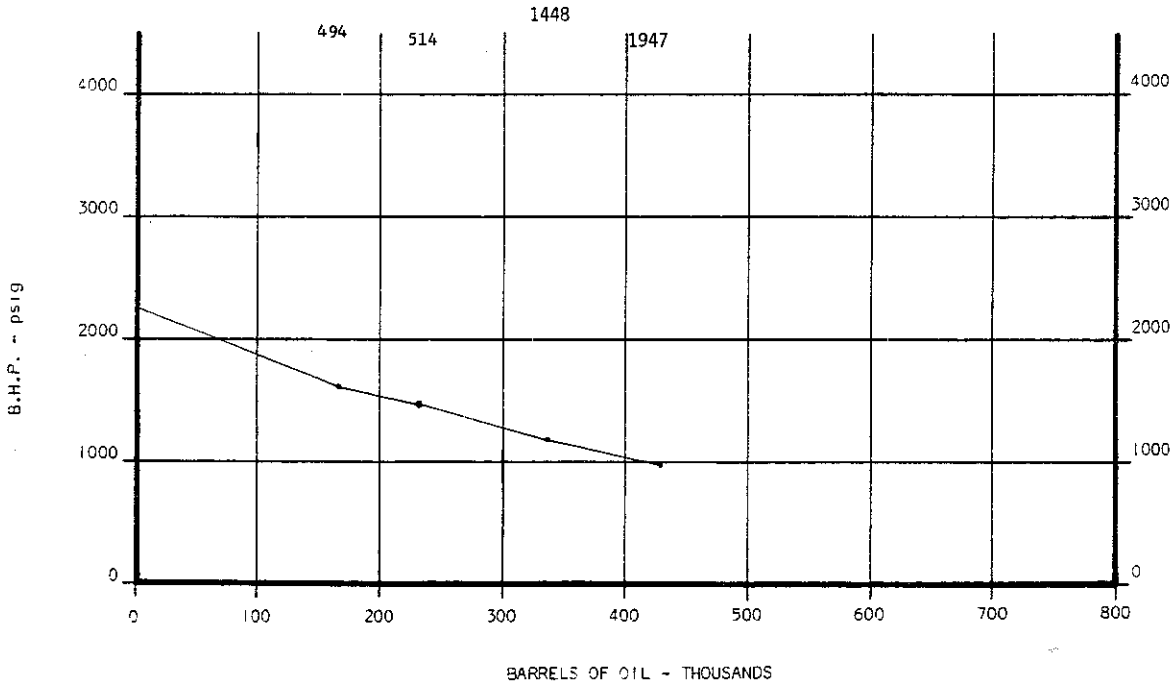
FIELD NAME BEAR LAKE 11A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-75 VIRGIN PRESSURE 2244 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3810 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.
				SEPTEMBER 26, 1975						
Darbee Brannan #3-11	9-75	16.7	4674	2244	.28	2244		INITIAL PRESSURE		981
				DECEMBER 22, 1975						
Meachum #3-10A	12-75	67.4	4665 TVD	2706	.32	2203		INITIAL PRESSURE		989
				APRIL 13, 1976						
Meachum #3-10A	12-75	20.3	4665 TVD	2040	.54	2036	2244	9-26-75	- 208	558
				OCTOBER 26, 1976						
Darbee Brannan 3-11	9-75	32	4673	1740	.29	1736	2036	4-13-76	- 300	617
				APRIL 5, 1977						
Darbee Brannan 3-11	9-75	51.5	4673	1625	.31	1625	1736	10-26-76	- 111	547
				SEPTEMBER 27, 1977						
Darbee Brannan 3-11	9-75	24	4674	1479	.29	1479	1625	4-5-77	- 146	677
				OCTOBER 7, 1978						
Darbee-Brannan 3-11	9-75	24	4674	1196	.24	1192	1479	9-27-77	- 287	520
				OCTOBER 27, 1979						
Meachum #3-10A	12-75	N.A	4665IVD	954	48	950	1192	10-7-78	- 242	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

BEAR LAKE 11a-23N-15W



STATE OF MICHIGAN

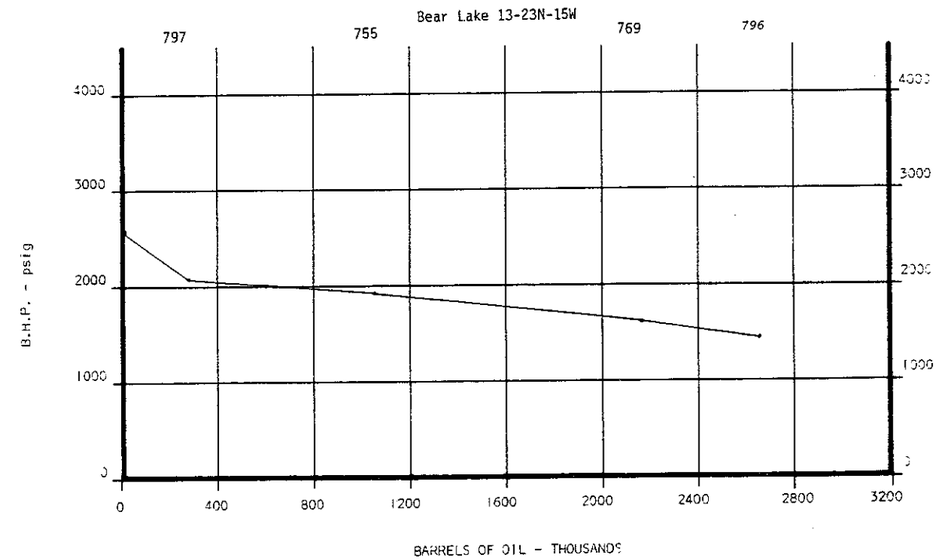
FIELD NAME BEAR LAKE 13-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 8-74 VIRGIN PRESSURE 2555 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3814 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			SEPTEMBER 5, 1974								
Churchill #1-13	8-74	14.5	4600	2554	.310	2554		Initial Test			
			SEPTEMBER 28, 1974								
Churchill #1-12	9-74	112	4850	2564	.290	2535		Initial Test			
			DECEMBER 16, 1974								
Muldavin #2-13	12-74	64.5	4846	2606	.280	2555		INITIAL TEST			
			OCTOBER 2, 1975								
Muldavin #2-13	12-74	24	4746	2387	.290	2363	2555	12-16-74	- 192	1182	
			APRIL 1, 1976								
Muldavin #2-13	12-74	29	4746	2229	.293	2200				1146	Pkr
Churchill #1-13	3-74	1.2	4599	2222	.29	2222				904	
					AVERAGE	2211	2363	10-2-75	- 152		
			APRIL 5, 1977								
Muldavin #2-13	12-74	46.5	4846	2129	.30	2074	2211	4-1-76	- 137	1051	Pkr.
			SEPTEMBER 19, 1977								
Churchill #1-14	9-77	64.7	4787 TVD	2117	28	2064	2074	4-5-77	- 10	934	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



BOTTOM-HOLE PRESSURE TESTS - Page 2

BEAR LAKE 13-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 3814 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					AUGUST 21, 1978						
St. Bear Lake #3-13	8-78	65.5	4880 TVD	1992	.29	1928	2064	9-19-77	- 136	790	
					JUNE 20, 1979						
Muldavin #2-13	12-74	28	4846	1865	.27	1812	1928	8-21-78	- 116	542	
					OCTOBER 27, 1980						
Muldavin #2-13	12-74	48	4846	1705	.30	1646	1812	6-20-79	- 166	873	
					NOVEMBER 13, 1981						
Churchill #1-13	8-74	72	4760	1465	.09	1451	1646	10-27-80	- 195	1249	
					AUGUST 29, 1983						
Bear Lake #4-13	7-83	72	4785 TVD	1467	29	1412	1451	11-13-81	-39	263	
					SEPTEMBER 9, 1983						
Bear Lake #5-13	8-83	--	4766 TVD	1435	30	1390	1412	8-29-83	-22	60	

REMARKS:

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 15-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-76 VIRGIN PRESSURE 2389 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3463 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					DECEMBER 6, 1976					
Marshall #1-15	12-76	72.66	4328	2389	N.A.	2389	INITIAL TEST			
					SEPTEMBER 13, 1977					
Marshall #1-15	12-76	30 Days	4479	2395	.09	2381	INITIAL TEST			1991
					JANUARY 5, 1978					
Marshall #1-15	12-76	22.5	4479	2376	.10	2361	NOT USED IN CALCULATIONS			1975
		Estimated 2000 Mcf gas production and 100 bbl. condensate production								
					JULY 3, 1978					
Marchall #1-15	12-76	68	4478	2052	.072	2041	2389	1-5-78	- 348	1736
					JUNE 19, 1979					
Marshall #1-15	12-76	73	4474	1614	.046	1607	2041	7-3-78	- 434	1410

STATE OF MICHIGAN

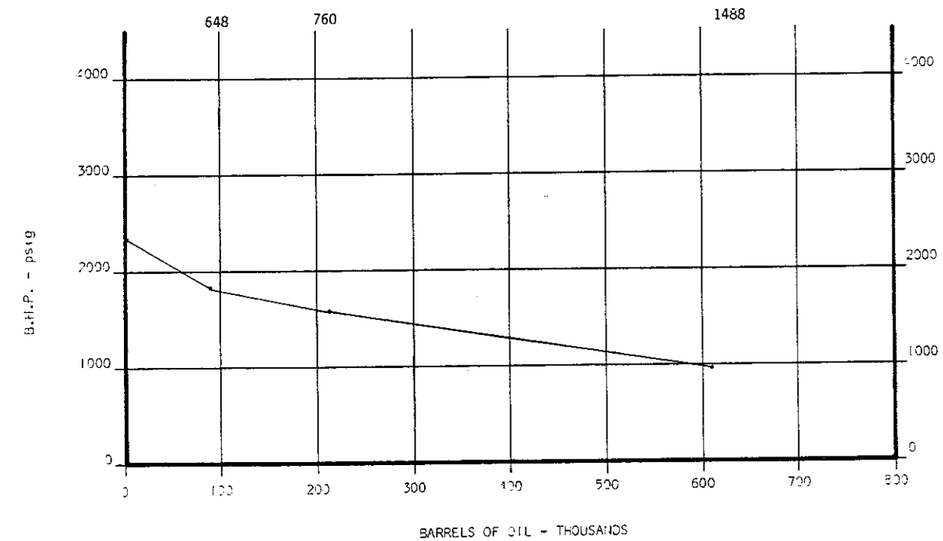
FIELD NAME BEAR LAKE 16-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-79 VIRGIN PRESSURE 2300* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3470 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Bowling #1-16	10-79	N.A.	4318	938	OCTOBER 17, 1979 .328	938	INITIAL REPORTED TEST			560	733

*Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BEAR LAKE 17-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 17-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 2337 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3576 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Hejl #1-17	12-77	62.6	4436	DECEMBER 13, 1977 2337	.30*	2337	INITIAL TEST			1070	
Hejl #1-17	12-77	26	4435	MARCH 13, 1979 1824	.32	1824	2337	12-13-77	- 513	761	
Hejl #1-17	12-77	24	4435	APRIL 18, 1980 1602	.25	1606	1824	3-13-79	- 218	652	
Hejl #1-17	12-77	26	4436	DECEMBER 12, 1983 919	.30	919	1606	4-18-80	-687	726	

* Estimated

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 18-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-77 VIRGIN PRESSURE 2194 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3470 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Valentine #1-18	6-77	N.A.	4383	JUNE 16, 1977 2194	.10*	2194	INITIAL TEST				
Valentine #1-18	6-77	126	4383	JANUARY 31, 1979 1545	.067	1545	NOT USED IN CALCULATIONS			1363	
Smeltzer #2-18	7-79	N.A.	4400	JULY 12, 1979 1429	.167	1430	NOT USED IN CALCULATIONS			1193	1237
Valentine #2-18	2-80	92	4398	FEBRUARY 4, 1980 1554	.10*	1554	2194	6-16-77	- 640		
Valentine #1-18	6-77	months	4361	APRIL 6-15, 1982 1358	.32	1365				1102	
Valentine #2-18	7-79	8 da	4398	1358	.05	1358				1184	
					AVG	1362	1554	2-4-80	-192		

* Estimated

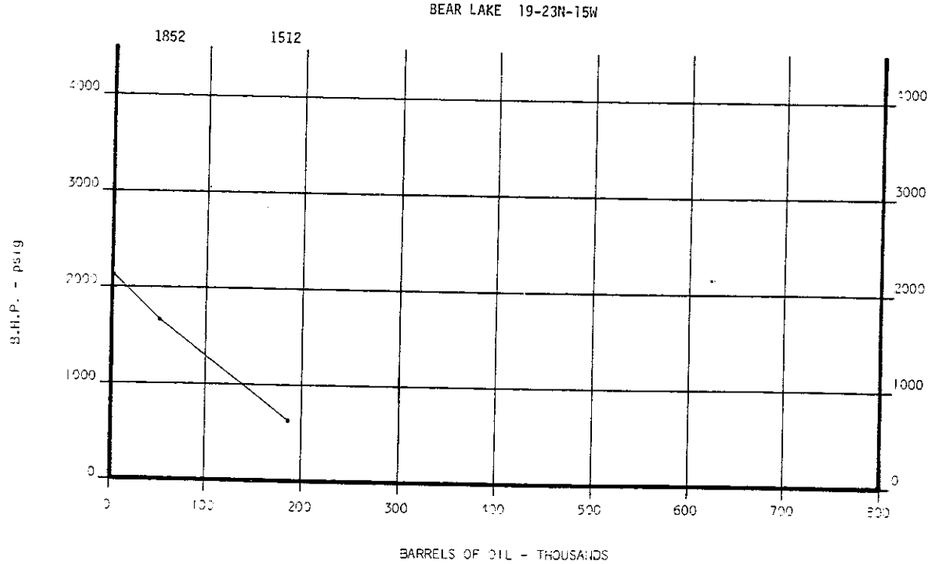
STATE OF MICHIGAN

FIELD NAME BEAR LAKE 19-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-75 VIRGIN PRESSURE 2139 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3433 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					DECEMBER 22, 1975						
St. Bear Lake Onekama #1-19	12-75	65.6	4267	2139	N.A.	2139	INITIAL PRESSURE			511	
					JULY, 1976						
PCA State #1-19	6-76	72	4340	2129	.294	2112	INITIAL PRESSURE			1043	1466
					AUGUST 14, 1978						
PCA State #1-19	6-76	41.5	4340	1690	.509	1660	2139	12-22-75	- 479	0	0
					JANUARY 23, 1984						
PCA-State #1-19	6-76	65	4339	643	.519	613	1660	8-14-78	-1047	351	368

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BEAR LAKE 19-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 19A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 3-79 VIRGIN PRESSURE 2207 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3453 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
				MARCH 21, 1979							
Acker 2-19a	3-79	90.1	4263IVD	2207	.086	2207	INITIAL TEST			1836	
					APRIL 18, 1980						
Acker 2-19A	3-79	432	4258IVD	1803	.055	1803	2207	3-21-79	- 404	1560	
					MAY 19, 1983						
Acker #1-19	3-83	73	4325	1375	.203	1372	1803	4-18-80	-431	1166	1215
					SEPTEMBER 22, 1983						
Acker #2-19A	3-79	72	4263 TVD	1330	.20	1330	1372	5-19-83	-42	1020	

* = Assumed

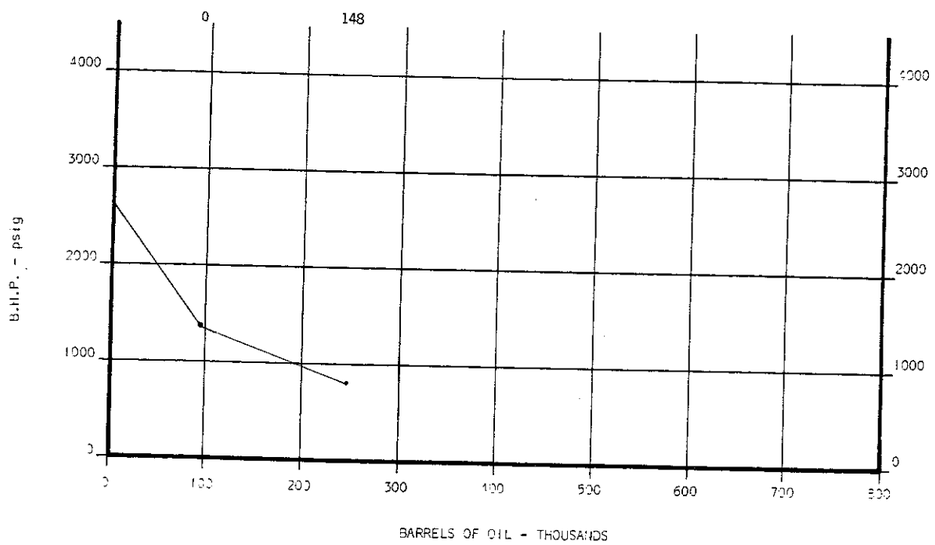
STATE OF MICHIGAN

FIELD NAME BEAR LAKE 20-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 2609 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3510 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					MARCH 7, 1975						
YANKEE #1-20	3-75	43.5	4354	2609	.35	2609	INITIAL TEST			1255	
					APRIL 7, 1976						
Miller #1-20	2-75	24+	4249	1268	.354	1297	NOT USED IN CALCULATIONS			300	1042
					SEPTEMBER 28, 1977						
Miller #1-20	2-75	36	4349	1371	.333	1375	2609	3-7-75	- 1234	442	600
					OCTOBER 27, 1980						
Miller #1-20	2-75	Approx. 1 week	4333	801	.393	812	1375	9-28-77	- 563	0	0

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BEAR LAKE 20-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 22-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 10-74 VIRGIN PRESSURE 2403 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3667 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			OCTOBER 28, 1974								
Pack. Corp. of America #1-22	10-74	65	4469 TVD	2403	.236	2403		Initial Test			
			JANUARY 17, 1975								
Bowling #1-22	1-75	66.8	4657	2405	.290	2382		INITIAL TEST		1142	
			OCTOBER 2 (#1-22), 7 (#1-21), 1975								
Bowling #1-22	1-75	25.2	4565	2351	.29	2354				1161	
Harju #1-21	10-75	37.9	4497	2368	.33	2357				1461	
					Average	2356	2403	10-28-75	- 47		
			OCTOBER 29, 1975								
Valiquett #2-15	10-75	72	4601	2358	.303	2353	2356	10-7-75	- 3	980	1030
			APRIL 2, 1976								
Bowling #1-22	1-75	24.5	4666	2321	.29	2295	2353	10-29-75	-58	1183	Pkr.

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

BEAR LAKE 22-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 3667 FEET CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 5, 1976						
P C.A. #2-22	11-76	65.35	4535	2137	.28	2117	2295	4-2-76	- 178	941	
					NOVEMBER 29, 1976						
Bowling #3-22	11-76	114.47	4659	2109	.28*	2095	2117	11-5-76	- 22	900	
					JULY 15, 1977						
Refke #1-28	7-77	26	4478 TVD	1890	.290	1883	2095	11-29-76	- 212	975	1100
					SEPTEMBER 27, 1977						
Bowling #1-22	1-75	25	4665	1785	.310	1758	1883	7-15-77	- 125	1064	
					MARCH 9, 1978						
Harju #2-21a	3-78	66.4	4548 TVD	1751	.30*	1726	1758	9-27-77	- 32		
					DECEMBER 12, 1978						
Orina #3-15	5-76	25	4675TVD	1360	.544	1295	NOT USED IN CALCULATIONS			511	
					APRIL 5, 1979						
Bowling #1-22	1-75	26	4666	1269	.21	1248				574	
Harju #2-21a	3-78	24.5	4547TVD	1333	.34	1302				779	
					AVERAGE	1275	1726	3-9-78	- 451		
					JUNE 21, 1979						
Valiquette #2-15	10-75	75.5	4603	1245	.036	1244	1275	4-5-79	- 31	1082	1068
					MARCH 7, 1980						
Bowling #3-22	11-76	62	4658	1029	.03	1028	1244	6-21-79	- 216	880	
					NOVEMBER 11, 1981						
Harju #1-21	10-75	48	4497	916	.295	906	1028	3-7-80	- 122	640	
					JULY 14, 1982						
Larsen #1-28	7-82	--	4652	857	.322	823	906	11-11-81	-83	167	530

* Assumed

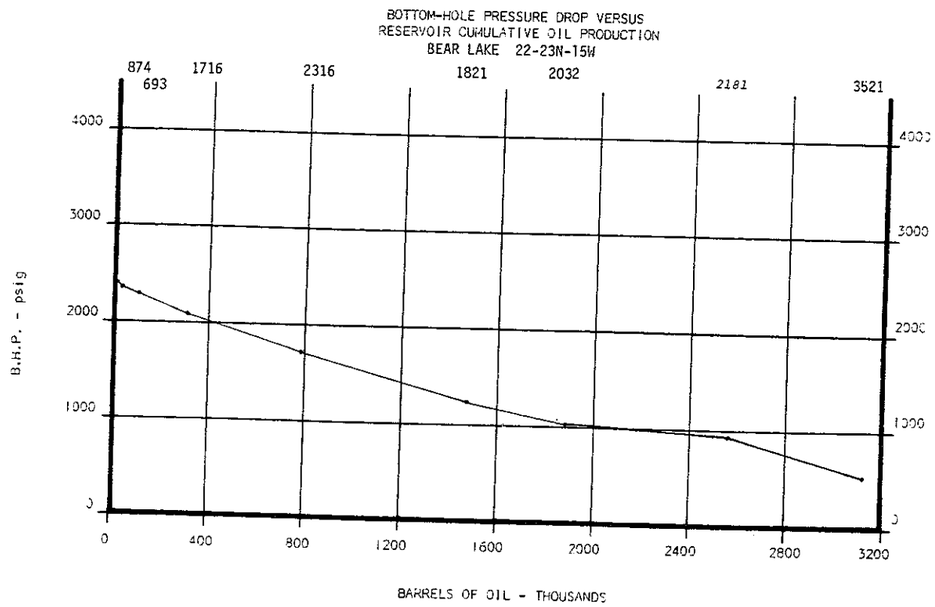
REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 3

FIELD NAME: BEAR LAKE 22-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 3667 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					AUGUST 30, 1982						
PCA "A" 1-22	10-74	--	4329 TVD	652	.334	699	823	7-14-82	-124	0	
					DECEMBER 8, 1983						
Bowling #1-22	1-75	27	4666	510	.02	508	699	8-30-82	-191	454	

REMARKS:



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 23-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 2376 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3948 FEET: CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Marshall Enter #1-23	9-73	66	SEPTEMBER 15, 1973 4790	2376	.265	2376		INITIAL TEST			
State Bear Lake #3-23	5-75	23.4	AUGUST 23, 1975 4875	2369	370	2344	2376	9-15-73	- 32	1437	1950
Nobbs #3-23	10-75	64.7	OCTOBER 11, 1975 4840	2370	.33	2362	2344	8-23-75	+ 18	1137	
Bowling #4-23	10-75	43.3	OCTOBER 16, 1975 4827	2364	.35	2361	2362	10-11-75	- 1	1310	
Marshall Enter. #1-23	9-73	65.1	DECEMBER 5, 1975 4825	2351	28	2341	2361	10-16-75	- 20	1494	1700
St. Bear Lake #3-33	5-75	N.A.	MAY 2, 1977 4855	2234	.321	2219	2341	12-5-75	- 122		
Nobbs #3-23	10-75	25.8	SEPTEMBER 27, 1977 4840	2185	.25	2179	2219	5-2-77	- 40	1783	

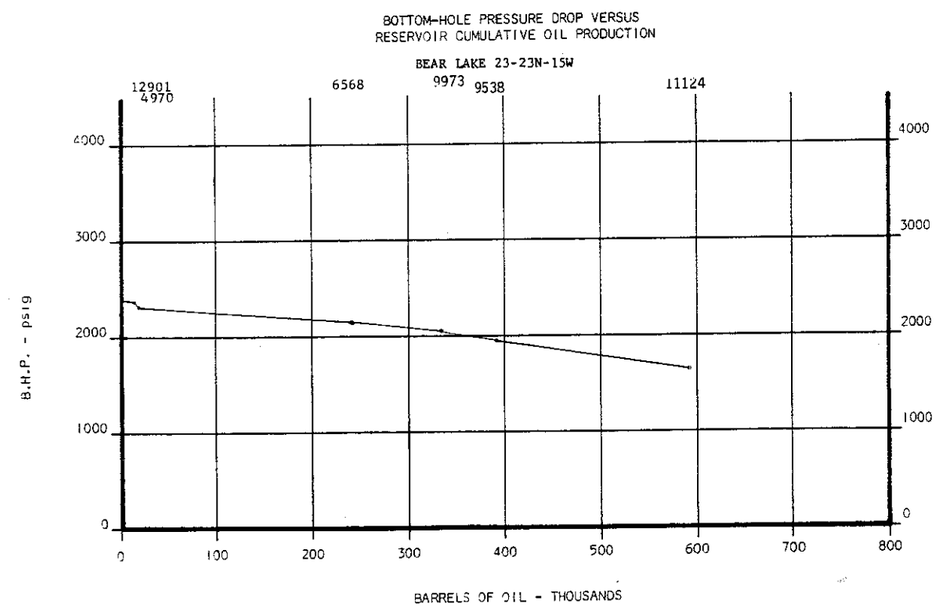
REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

BEAR LAKE 23-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 3948 FEET: CURRENT PRESS.	PREVIOYS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
St. Bear Lake #3-23	5-75	24	4855	2160	DECEMBER 14, 1977 .285	2146	2179	9-27-77	- 33	1695	1695
Nobbs #3-23	10-75	31	4840	2065	APRIL 5, 1979 .34	2051	2146	12-14-77	- 95		
Nobbs #3-23	10-75	216	4840	1964	MARCH 27, 1980 .33	1957	2051	4-5-79	- 94	1594	
Bowling #1-23	9-83	73	4840	1692	OCTOBER 3, 1983 .324	1682	1957	3-27-80	-275	885	1362
St. Bear Lake #3-23	5-75	528	4850	1661	DECEMBER 9, 1983 .347	1646	1682	10-3-83	-36	989	

REMARKS:



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 24-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-74 VIRGIN PRESSURE 2587 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4090 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
Rudy #1-24	11-74	39	4836* TVD	2538	NOVEMBER 20, 1974 N.A.	2538	INITIAL TEST (Gas well)			2075
Rudy #1-24	11-74	63	4835 TVD	2587	MARCH 27, 1974 .24	2587	(INITIAL REWORK TEST)			2075
Rudy #1-24	11-74	4.4	4835 TVD	2502	MARCH 10, 1976 .24*	2502	2587	3-10-76	- 85	2050
Rudy #1-24	11-74	12	4671 TVD	2267	SEPTEMBER 20, 1977 .083	2281	2502	3-10-76	- 221	1869
Judd #3-19	4-78	322	4825	2167	MAY 5, 1978 .34	2172	2281	9-20-77	- 109	1429
Judd #3-19	4-78	N.A.	4825	2110	NOVEMBER 16, 1978 .34*	2114	2172	5-5-78	- 58	1118 Pkr.
Rudy #1-24	11-74	30.5	4671TVD	2052	JUNE 19, 1979 .07	2064	2114	11-16-78	- 50	1707

* Assumed

STATE OF MICHIGAN

FIELD NAME BEAR LAKE 25-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-76 VIRGIN PRESSURE 2560 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4030 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
Argue #1-25	6-76	37	4773	2560	JUNE 2, 1976 N.A.	2560	INITIAL PRESSURE			2058
Argue #1-25	6-76	91	4773	497	DECEMBER 15, 1981 .06	497	2560	6-2-76	-2063	445

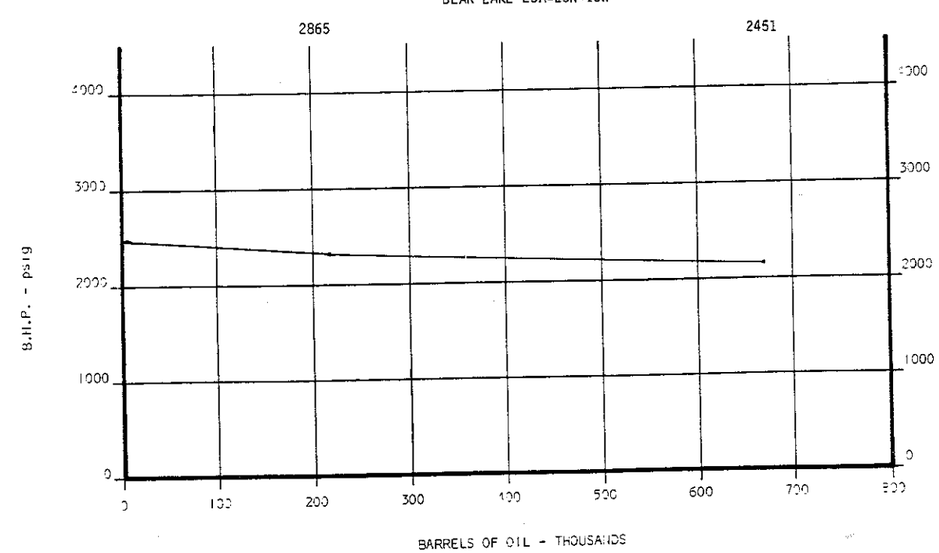
STATE OF MICHIGAN

FIELD NAME BEAR LAKE 25A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-75 VIRGIN PRESSURE 2509 NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4093 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
Reckow #2-25	12-75	65.8	4837	2491	DECEMBER 15, 1975 .293	2509	INITIAL TEST			1309
Reckow #2-25	12-75	66.3	4938	2524	SEPTEMBER 17, 1976 .56	2502	2509	12-15-75	- 7	
Reckow #2-25	12-75	48	4937	2367	DECEMBER 22, 1979 .53	2346	2502	9-17-76	-156	
Reckow #2-25	12-75	24	4937	2316	APRIL 27, 1981 .52	2288	NOT USED IN CALCULATIONS			512
Hilliard #1-26A	8-81	NA	4906 TVD	2320	AUGUST 10, 1981 .290	2321	2346	12-22-79	- 25	1141 1023
Reckow-Howes #1-26A	12-81	71.8	4955	2293	FEBRUARY 8, 1982 .281	2288	2321	8-10-81	- 33	1223 767
Reckow-Howes #1-26A	12-81	--	4961	2142	DECEMBER 4, 1983 .310	2134	2288	2-8-82	-154	1012

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BEAR LAKE 25A-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 26-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 2393 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3969 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					DECEMBER 23, 1974					
Lutz-Bowling 1-26	12-74	66	4845	2393	.390	2393	INITIAL TEST			
					MARCH 2, 1975					
Bowling Hoffman #2-23	3-75	42	4830	2390	.37	2390	INITIAL TEST			1450
					OCTOBER 16, 1975					
Lutz #4-26	10-75	63.7	4792	2370	.31	2366	2393	12-23-74	- 27	1167
					OCTOBER 25, 1976					
Lutz #5-27A	10-76	68.64	4758 TVD	2314	.32	2319	2366	10-16-75	- 47	1836
					OCTOBER 27, 1977					
Lutz #4-26	10-75	27 3	4792	2185	.56	2178	2319	10-25-76	- 141	1626
					OCTOBER 6, 1978					
Lutz #4-26	10-75	22 days	4792	2100	.29	2092	2178	10-27-77	- 86	1719
					JUNE 20, 1979					
Lutz #4-26	10-75	54	4792	2019	.28	2015	2092	10-6-78	- 77	1535
					OCTOBER 27, 1980					
Lutz #4-26	10-75	48	4792	1896	.30	1889	2015	6-20-79	- 126	1573
					NOVEMBER 11, 1981					
Lutz #4-26	10-75	48	4792	1826	.29	1822	1889	10-27-80	- 67	1524

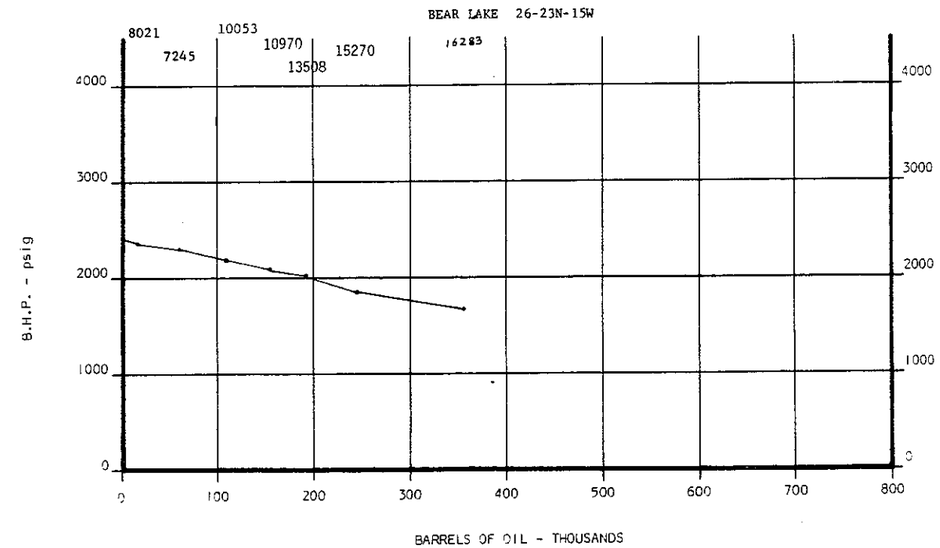
BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: BEAR LAKE 26-23N-15W

OPERATOR LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 3969 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					NOVEMBER 23, 1983					
Lutz #4-26	10-75	51	4850	1671	.30	1645	1822	11-11-81	-177	1326

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 26A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

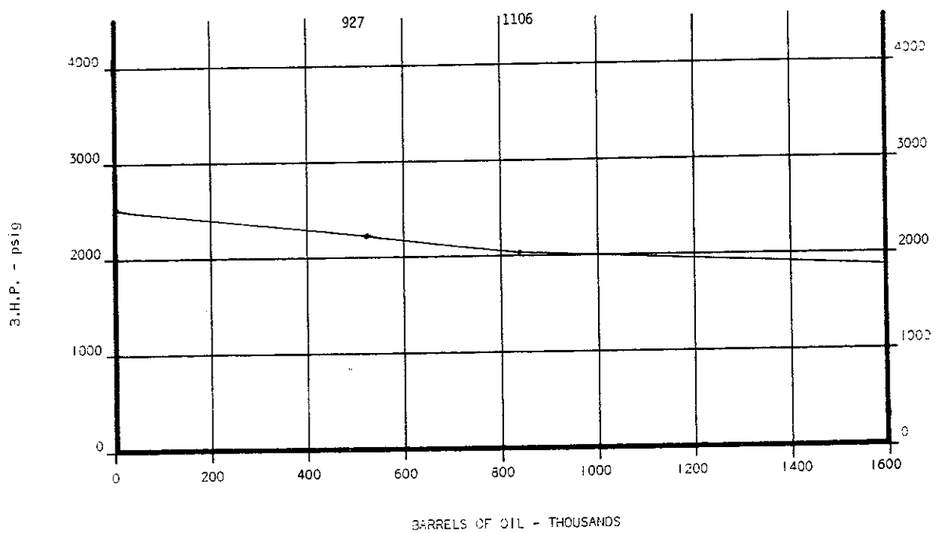
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 2522 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4093 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					MARCH 5, 1975					
Hilliard #2-26	3-75	93.5	4866	2522	.27	2522	INITIAL TEST			1281
					MAY 30, 1975					
Sedlar-Johnson 3-26	6-75	41.3	4858TVD	2514	.26	2517	INITIAL TEST			1295
					APRIL 2, 1976					
Hilliard #2-26	3-75	26	4866	2467	.27	2463	2522	5-5-75	- 59	1293 Pkr.
					APRIL 5, 1977					
Hilliard #2-26	3-75	46	4866	2371	.30	2371	2463	4-2-76	- 92	1177 Pkr.
					APRIL 12, 1978					
Hilliard #2-26	3-75	19	4866	2282	.27	2282	2371	4-5-77	- 89	1127
					SEPTEMBER 27, 1979					
Sedlar-Johnson 3-26	6-75	26	4858TVD	2193	.30	2192	2282	4-12-78	- 90	1037
					OCTOBER 1, 1980					
Sedlar-Johnson 6-26	9-80	41.6	4863	2140	.30*	2143	2192	9-27-79	- 49	
					OCTOBER 10, 1980					
Johnson Hilliard 7-26	10-80	70.2	4856	2093	.24	2093	2143	10-1-80	- 50	950
					DECEMBER 21, 1983					
Sedlar-Johnson #6-26	10-80	27	4863	1774	27	1773	2093	10-10-80	-320	1362

*Estimate

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

Bear Lake 26A-23N-15W



STATE OF MICHIGAN

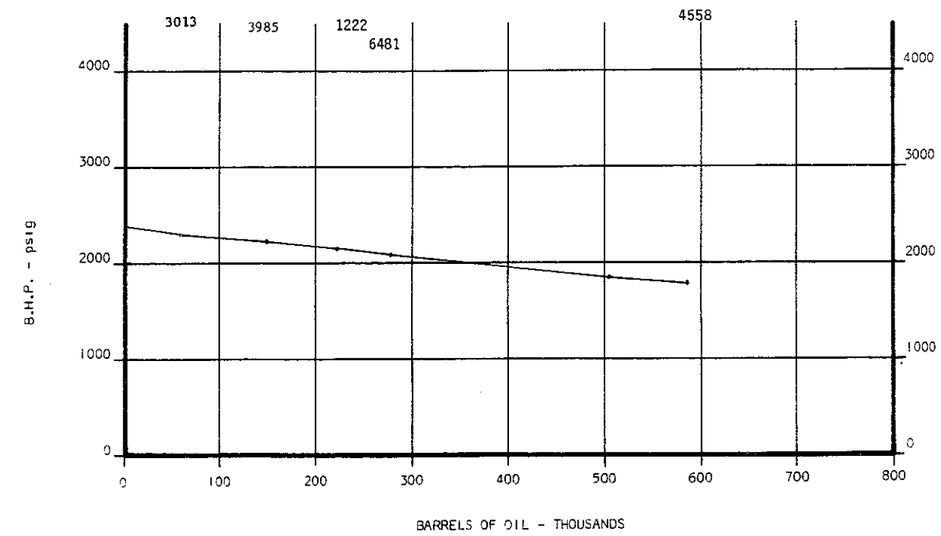
FIELD NAME BEAR LAKE 27-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-75 VIRGIN PRESSURE 2378 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3940 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	
Olson #1-27	6-75	41.1	4705	2378	JUNE 6, 1975 .240	2378	INITIAL TEST			1962	
Hilliard #3-27	2-76	64.9	4641 TVD	2352	MARCH 23, 1976 .287	2368	INITIAL TEST			1160	
Hilliard #3-27	2-76	41	4740 TVD	2307	OCTOBER 26, 1976 .30	2289	2378	6-6-75	- 89	1445	
Hilliard #3-27	2-76	27	4740 TVD	2235	SEPTEMBER 27, 1977 .32	2221	2289	10-26-76	- 68	1706	
Hilliard #3-27	2-76	24days	4740TVD	2155	OCTOBER 6, 1978 .06	2151	2221	9-27-77	- 70	1663	
Olson #1-27	6-75	32	4705	2073	JUNE 19, 1979 .09	2073	2151	10-6-78	- 78	1757	
Olson #1-27	6-75	68	4729	1824	APRIL 10, 1982 .21	1819	2073	6-19-79	-254	1458	
Anderson #2-34	1-83	NA	4764	1762	FEBRUARY 1, 1983 .307	1747	1819	4-10-82	-72	649	651

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

BEAR LAKE 27-23N-15W

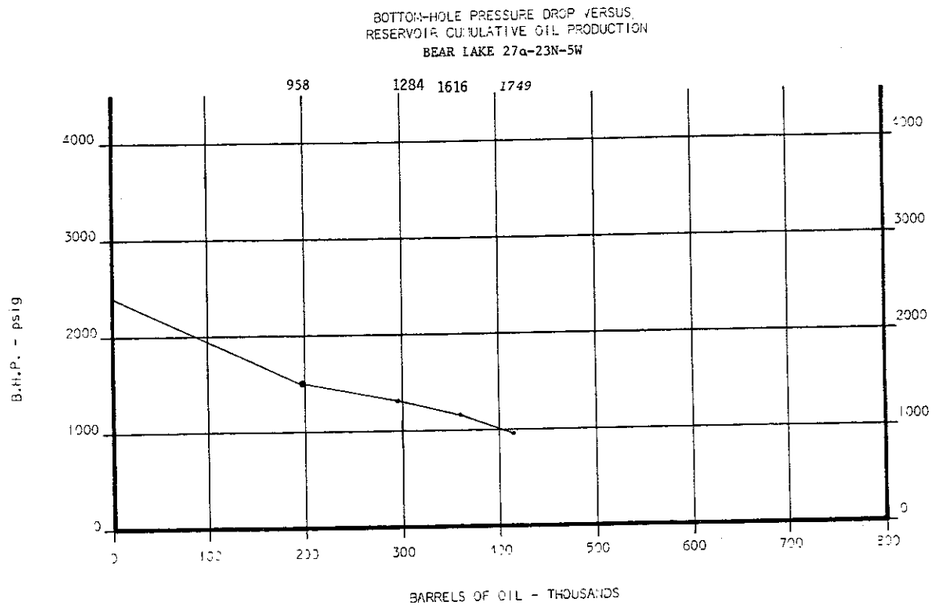


STATE OF MICHIGAN

FIELD NAME BEAR LAKE 27A-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-76 VIRGIN PRESSURE 2390 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3673 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Johnson #4-27	1-76	67	4496	2390	JANUARY 30, 1976 .299	2390	INITIAL TEST			1155	
Johnson #4-27	1-76	46	4497	1552	APRIL 13, 1978 .303	1552	2390	1-30-76	- 838	1122	
Johnson #4-27	1-76	47.5	4497	1312	MARCH 30, 1979 .033	1311	1552	4-13-78	- 241	1146	
Johnson #4-27	1-76	118.1	4497	1168	MARCH 26, 1980 .034	1167	1311	3-30-79	- 144		
Johnson #4-27	1-76	48	4596	943	NOVEMBER 11, 1981 .028	940	1167	3-26-80	- 227	829	

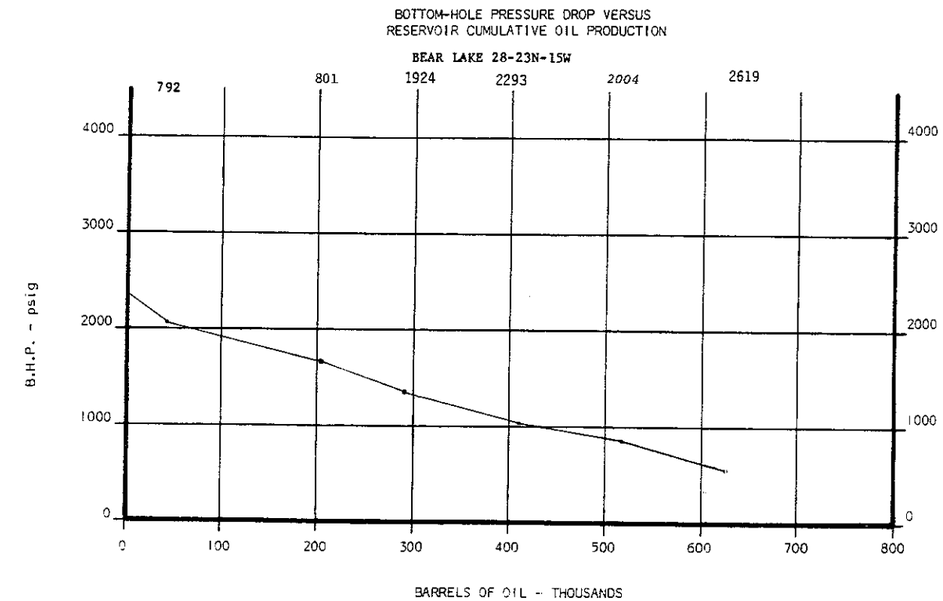


STATE OF MICHIGAN

FIELD NAME BEAR LAKE 28-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-76 VIRGIN PRESSURE 2358 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3657 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Meister #4-28	2-76	64.8	4475	2358	MARCH 1, 1976 .315	2358	INITIAL PRESSURE			2033	
Meister #4-28	2-76	43.5	4481	2055	OCTOBER 26, 1976 .293	2049	2358	3-1-76	- 309	959	
Meister #4-28	2-76	20	4476	1653	APRIL 12, 1978 .298	1653	2049	10-26-76	- 396	968	
Meister #4-28	2-76	49.5	4557	1383	MARCH 30, 1979 .05	1378	1653	4-12-78	- 275	1200	
Meister #4-28	2-76	48	4575	1073	OCTOBER 27, 1980 .32	1037	1378	3-30-79	- 341	805	
Meister #4-28	2-76	48	4575	900	NOVEMBER 11, 1981 .30	866	1037	10-27-80	- 171	608	
Briske #1-28	7-83	65	4621	633	JULY 11, 1983 .331	586	866	11-11-81	-280	505	125



STATE OF MICHIGAN

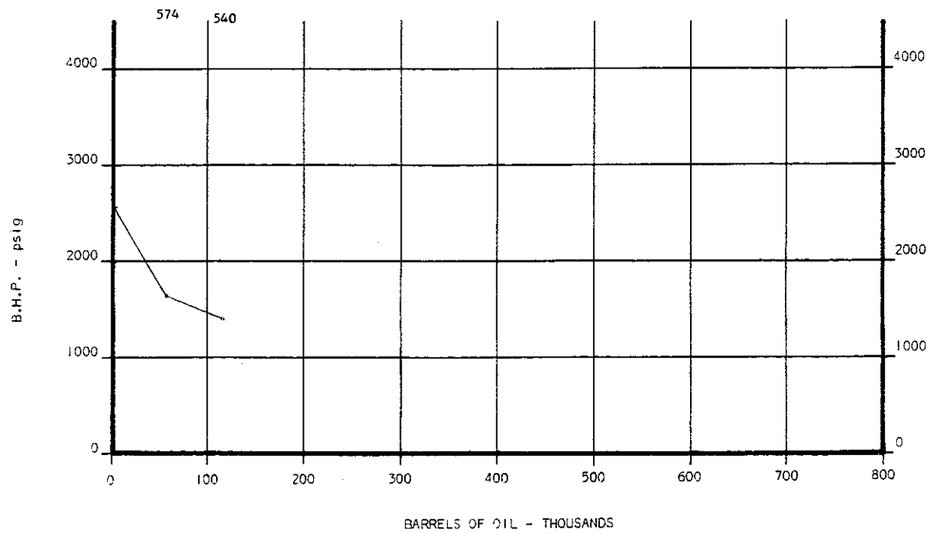
FIELD NAME BEAR LAKE 31-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 9-74 VIRGIN PRESSURE 2580 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3527 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
McLeod-Erickson #1-31	9-74	173	SEPTEMBER 20, 1974 4198	2580	300	2580	Initial Test				
McLeod Erickson #1-31	9-74	77	APRIL 2, 1976 4197	1662	.32	1662	2580	9-20-74	- 918	569	Pkr
McLeod Erickson #1-31	9-74	69	OCTOBER 27, 1976 4196	1408	.30	1408	1662	4-2-76	- 254	522	Pkr

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BEAR LAKE 31-23N-15W



BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: BEAR LAKE 32-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I.@ 3825 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Ursum #1-33	12-83	74	4665	1338	DECEMBER 12, 1983 .364	1323	NOT USED IN CALCULATIONS			398	
Gauthier #6-32A	10-82	26	4646 TVD	1544	DECEMBER 20, 1983 .22	1538	1634	10-7-82	-96	521	

REMARKS:

STATE OF MICHIGAN

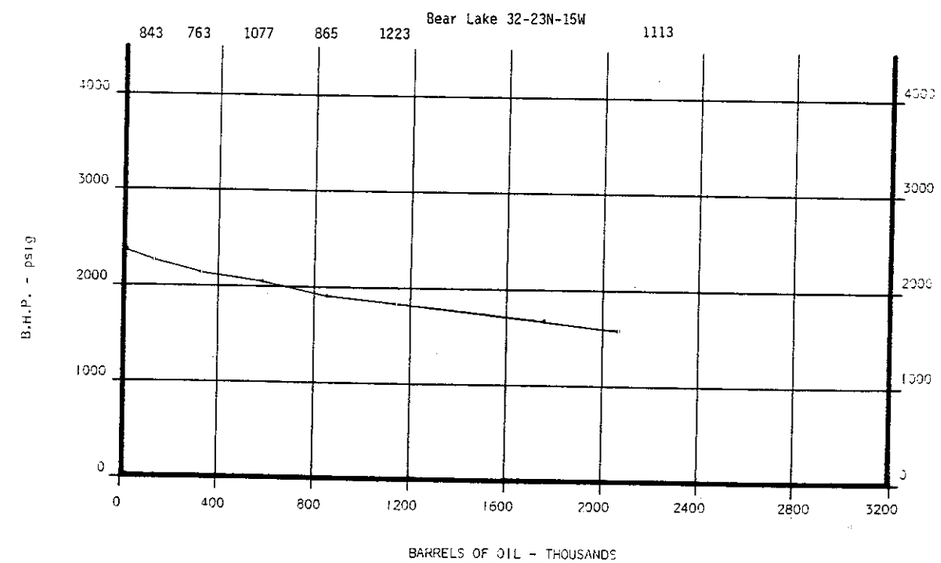
FIELD NAME BEAR LAKE 32-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-74 VIRGIN PRESSURE 2385 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3825 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Bradford #1-32	11-74	41	4623	2385	NOVEMBER 16, 1974 .310	2385	INITIAL TEST			1152	
Fink-LaSarge 2-32	6-75	62.6	4612	2377	JUNE 22, 1975 .360	2374	INITIAL TEST			1172	
Fink LaSarge 2-32	6-75	50	4612	2264	APRIL 7, 1976 .29	2257	2385	11-16-74	- 128	1083	Pkr.
Fink LaSarge 2-32	6-75	56.5	4612	2154	APRIL 6, 1977 .32	2151	2257	4-7-76	- 106	963	Pkr.
Bradford #5-32	7-77	19.9	4641	2125	JULY 13, 1977 .247*	2119	2151	4-6-77	-32	978	
Fink LaSarge 2-32	6-75	24	4612	2030	APRIL 13, 1978 .28	2028	2119	7-13-77	- 91	869	
Fink LaSarge 2-32	6-75	26.5	4612	1935	MARCH 29, 1979 .33	1927	2028	4-13-78	- 101		
Fink LaSarge 2-32	6-75	28	4612	1834	APRIL 22, 1980 .29	1831	1927	3-29-79	- 96	739	
Gauthier #6-32A	10-82	4	4645 TVD	1641	OCTOBER 7, 1982 .27	1634	1831	4-22-80	-197	--	

* Average for total depth

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Bear Lake 32-23N-15W



FIELD NAME BEAR LAKE 33-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 6-74 VIRGIN PRESSURE 2391 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3721 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			JUNE 27, 1974								
Sedelmaier- O'Hagen #1-33	6-74	66	4532	2391	.300	2391	Initial Test				
			NOVEMBER 13, 1974								
Briske #1-28	11-74	58.5	4638	2382	.300	2347	2391	6-27-74	- 44	1156	
			JUNE 23, 1975								
Briske #2-28	6-75	60.7	4552	2341	.3166	2332	2347	11-13-74	- 15	1135	
			OCTOBER 27, 1975								
Gauthier #3-28	10-75	67	4623	2342	32	2309	2332	6-23-75	- 23	1125	
			APRIL 7, 1976								
Briske #2-28	6-75	49	4552	2185	.31	2172	2309	10-27-75	- 137	1170	Pkr.
			APRIL 5, 1977								
Gauthier #3-28	10-75	45	4623	2056	.31	2024	2172	4-7-76	- 148	879	
			APRIL 12, 1978								
Gauthier #3-28	10-75	21	4623	1883	.28	1854	2024	4-5-77	- 170	793	
			SEPTEMBER 1, 1978								
Sedelmaier O'Hagen #1-33	6-74	62.9	4632	1862	.26	1836	1854	4-12-78	- 18	861	

REMARKS:

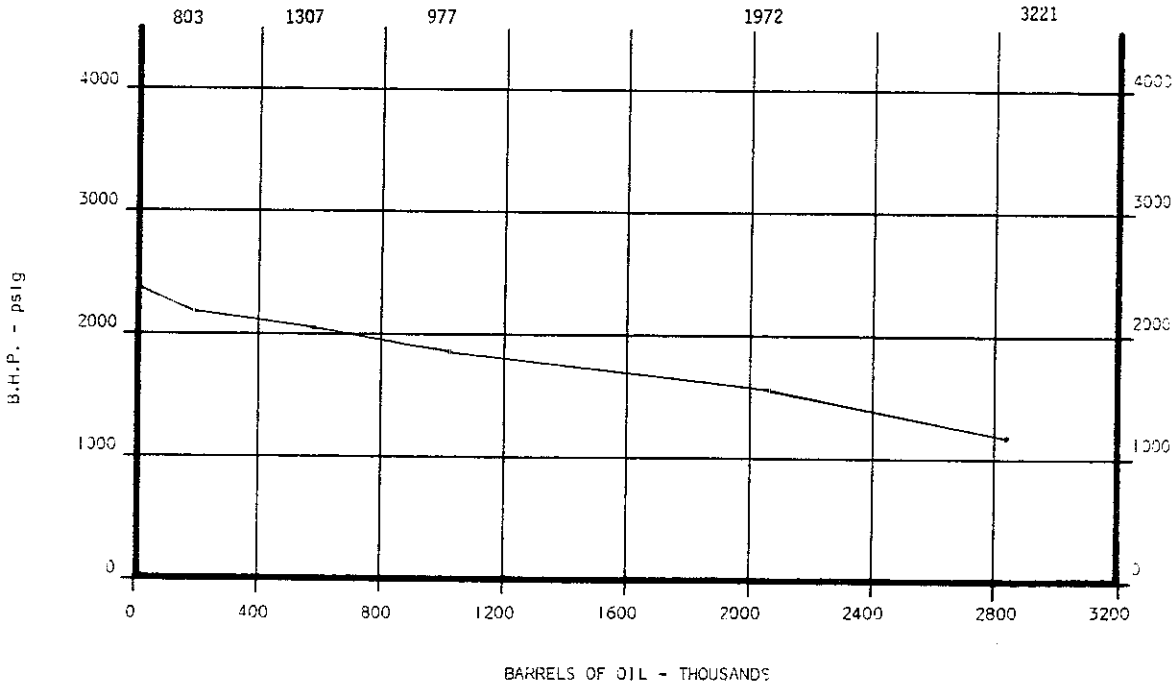
BOTTOM-HOLE PRESSURE TESTS - Page 2

BEAR LAKE 33-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I.@ 3721 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					OCTOBER 27, 1980						
Briske #1-28	11-74	48	4366	1496	.41	1555	1836	9-1-78	- 281	1246	
					NOVEMBER 29, 1983						
Gauthier #3-28	10-75	120	4629	1167	.06	1160	1555	10-27-80	-395	1017	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Bear Lake 33-23N-15W



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 34-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-75 VIRGIN PRESSURE 2439 NO. PRODUCING WELLS

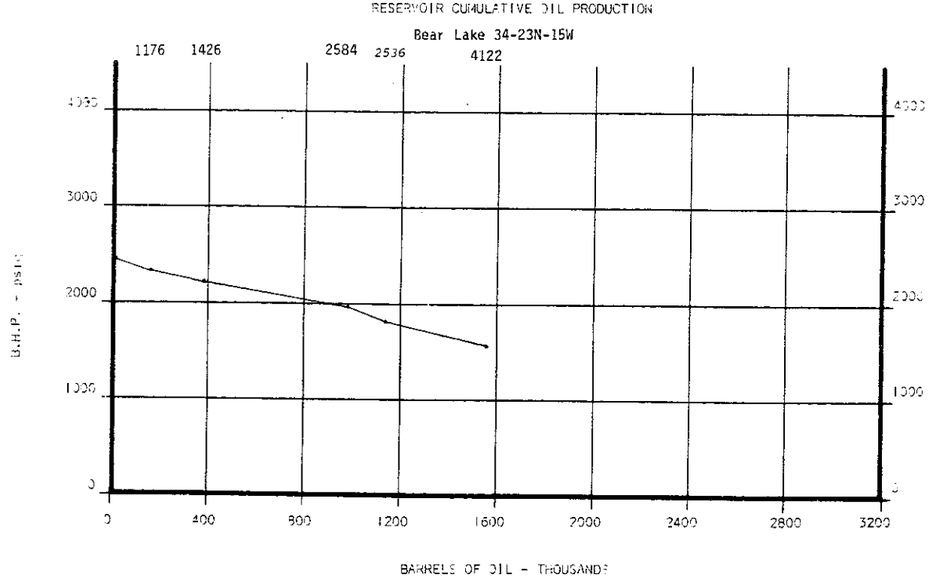
OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4052 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.
					OCTOBER 20, 1975					
Zimmerman #2-34	10-75	67.2	4842	2438	.43	2438	INITIAL TEST			1161
					OCTOBER 22, 1975					
Mattison #1-34	10-75	67.2	4842	2425	.40	2439	INITIAL TEST			1122
					FEBRUARY 6, 1976					
Meister #3-34	2-76	65.4	4778	2413	.34	2437	INITIAL TEST			1162
NOTE: Shell seismic indicates the Mattison #1-34 and Meister #3-34 are in the same reservoir while the Zimmerman #2-34 is in a separate reservoir.										
					OCTOBER 26, 1976					
Zimmerman #2-34	10-75	44	4791	2303	.28	2314	2439	10-20-75	- 125	1069
					SEPTEMBER 27, 1977					
Meister #3-34	2-76	28.5	4778	2201	.30	2222	2314	10-26-76	- 92	959
					OCTOBER 10, 1978					
Meister #3-34	2-76	24	4778	1644	.46	1670	NOT USED IN CALCULATIONS			1391
					JUNE 19, 1979					
Zimmerman #2-34	10-75	31.5	4810	2000	.31	2014				1230
Mattison #1-34	10-75	30	4841	1993	.09	1996				1690
					Average	2005	2222	9-27-77	- 217	
					APRIL 22, 1980					
Zimmerman #2-34	10-75	29	4792	1917	.29	1936	2005	6-19-79	- 69	1243

FIELD NAME: BEAR LAKE 34-23N-15W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4052 FEET CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
					MARCH 3, 1981					
Meister #3-34	2-76	48	4778	1799	.30	1816	1936	4-22-80	- 120	1491
					DECEMBER 29, 1983					
Meister #3-34	2-76	26	4770	1565	.07	1569	1816	3-3-81	-247	1340

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

FIELD NAME BEAR LAKE 35-23N-15W COUNTY MANISTEE TOWNSHIP BEAR LAKE DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-77 VIRGIN PRESSURE 2503 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4067 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					SEPTEMBER 22, 1977					
Miller 1-35	9-77	25.5	4844	2503	.083	2503	INITIAL TEST			2083 508

STATE OF MICHIGAN

FIELD NAME BROWN 2-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 2-83 VIRGIN PRESSURE 2534 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4205 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
					FEBRUARY 27, 1983					
Coe #1-2A	2-83	38	4970 TVD	2534	.091	2534	INITIAL TEST			2128

STATE OF MICHIGAN

FIELD NAME BROWN 4-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-74 VIRGIN PRESSURE 2430 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3749 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 29, 1974						
Viol #1-4	6-74	43	4530	2420	.073	2420		INITIAL TEST		2019	
					JULY 7, 1975						
Viol #3-4	7-75	71.1	4589	2435	.073*	2430		INITIAL TEST		2025	
					AUGUST 2, 1977						
Viol #1-4	6-74	15 DAYS	4512	2304	.086	2306	2430	7-7-75	- 124	1909	
					FEBRUARY 28, 1979						
Viol #1-4	6-74	50	4562	1878	.066	1876				1572	
Viol #3-4	7-75	31	4589	1873	.063	1868				1586	
					AVERAGE	1872	2306	8-2-77	- 434		
					NOVEMBER 3, 1981						
Viol #3-4	7-75	48	4588	1249	.05	1245	1872	2-28-79	- 627	1068	
					JUNE 17, 1982						
Viol #1-4	6-74	48	4552	1157	.06	1156	1245	11--3-81	-89	1019	

* Assumed

STATE OF MICHIGAN

FIELD NAME BROWN 5-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-76 VIRGIN PRESSURE 2352 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3825 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JUNE 7, 1976						
Lyman #1-5	6-76	65.1	4655	2352	.27	2336		INITIAL TEST		1159	
					SEPTEMBER 27, 1977						
Lyman #1-5	6-76	28.5	4655	2218	.29	2201	2336	6-7-76	- 135	1429	
					OCTOBER 20, 1978						
Hanson #1-5	12-78	48*	4622	2117	.288	2107	2201	9-27-77	- 94	929	1374
					NOVEMBER 7, 1978						
Lyman #1-5	6-76	29	4655	2102	.30	2080	2107	10-20-78	- 27	1628	80
					SEPTEMBER 24, 1979						
Lyman #1-5	6-76	N.A.	4655	2013	.28	1993	2080	11-7-78	- 87		
					APRIL 14, 1981						
Lyman #1-5	6-76	24	4655	1751	.27	1735	1993	9-24-79	- 258	695	
					DECEMBER 7, 1983						
Lyman #1-5	6-76	26	4674	1661	.28	1635	1735	4-14-81	-100	1192	

*Estimated

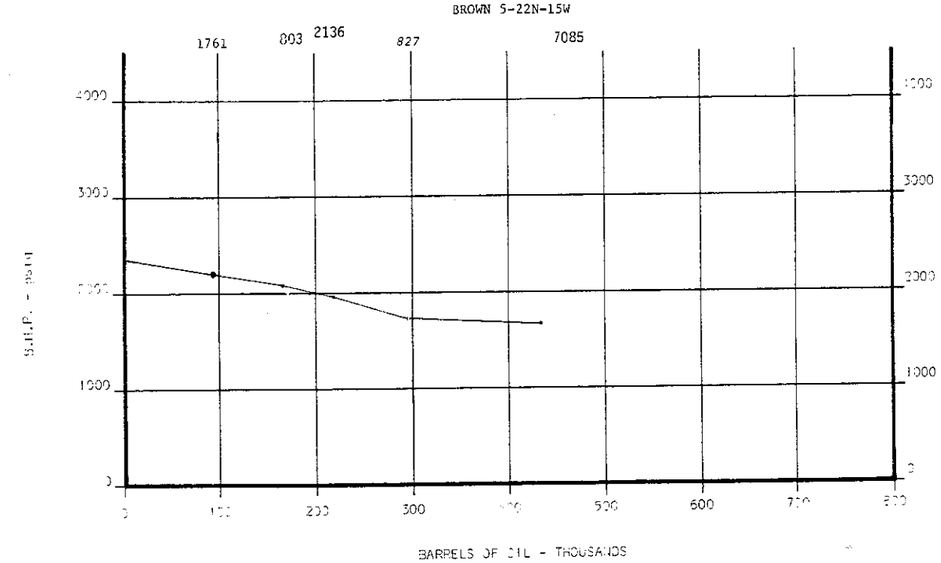
STATE OF MICHIGAN

FIELD NAME BROWN 4A-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 2455 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3749 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					JULY 2, 1975						
Zalud Grabinski #2-4	7-75	44.1	4575	2458	.073*	2455		INITIAL TEST		2048	
					SEPTEMBER 13, 1977						
Zalud Grabinski #2-4	7-75	14 Days	4574	2284	.081	2281	2455	7-2-75	- 174	1905	
					FEBRUARY 27, 1979						
Zalud Grabinski #2-4	7-75	30	4585	1659	.053	1657	2281	9-13-77	- 624	1420	
					MARCH 24, 1982						
Zalud Grabinski #2-4	7-75	2 da	4574	1080	.06	1078	1657	2-27-79	-579	942	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BROWN 5-22N-15W



STATE OF MICHIGAN

FIELD NAME BROWN 6-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 7-74 VIRGIN PRESSURE 2308 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3649 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Lindeman #2-6	7-74	21	JULY 9, 1974 4415	2308	.060	2308	Initial Test				
Lindeman #2-6	7-74	66.8	AUGUST 2, 1977 4414	2227	.06*	2228	2308	7-9-74	- 80	1892	
Lindeman #2-6	7-74	29.5	FEBRUARY 27, 1979 4415	1748	.053	1749	2228	8-2-77	- 479	1520	
Lindeman #2-6	7-74	48	MARCH 24, 1982 4464	1070	.03	1069	1749	2-27-79	-680	946	

* Assumed

REMARKS:

STATE OF MICHIGAN

FIELD NAME BROWN 7A-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-81 VIRGIN PRESSURE 2041 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3820 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Dienes #3-7	12-81	16	4622	2041	JANUARY 19, 1982 .31	2041	INITIAL TEST				
Dienes #3-7	12-81	--	4622	2006	MAY 5, 1982 .32	2006	2041	1-19-82	-35	748	
Dienes #3-7	12-81	26	4622	1885	DECEMBER 16, 1983 .06	1885	2006	5-5-82	-121	1620	

STATE OF MICHIGAN

FIELD NAME BROWN 7-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

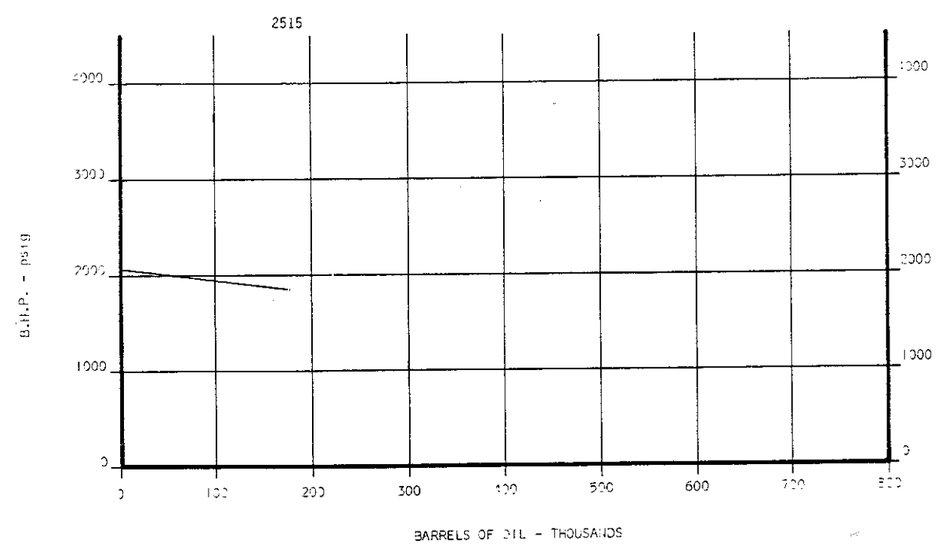
PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 6-74 VIRGIN PRESSURE 2404 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3740 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
Booher #1-7	6-74	40.5	JULY 10, 1974 4525	2505	.080	2404	Initial Test				
Booher #1-7	6-74	1.20	JUNE 9, 1976 4524	2185	.080*	2185	INCOMPLETE BUILDUP			1865	
Booher #1-7	6-74	52	FEBRUARY 28, 1979 4524	1199	.031	1199	2404	7-10-74	- 1205	1060	

* Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BROWN 7A-22N-15W



STATE OF MICHIGAN

FIELD NAME BROWN 8-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 10-74 VIRGIN PRESSURE 2478 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 3926 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			OCTOBER 11, 1974								
McCarthy #1-8	10-74	63.5	4703*	2478**	N.A.	2478	INITIAL TEST			2068	
			SEPTEMBER 29, 1977								
McCarthy #1-8	10-74	76.5	4705	1936	061	1936	2478	10-11-74	- 542	1648	
			FEBRUARY 28, 1979								
McCarthy #1-8	10-74	53	4706	1415	.043	1415	1936	9-29-77	- 521	1220	

REMARKS: * Estimated
** Build-up pressure

STATE OF MICHIGAN

FIELD NAME CLEON 11-24N-11W COUNTY MANISTEE TOWNSHIP CLEON DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-30-73 VIRGIN PRESSURE 3061 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4587 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
						AUGUST 15, 1973					
Carpenter #1-11	7-73	111	5685	3005	.295	3005	INITIAL TEST, NOT BUILT UP				
						APRIL 11, 1975					
Overmyer-State Cleon #2-12	4-75	88.8	5835	3074	.32	3061	INITIAL TEST				1480
						NOVEMBER 15, 1977					
Carpenter #2-11	11-77	68.8	5796	2612	26	2571	3061	4-11-75	- 490		1141
						MAY 30, 1978					
Consumers Power St. Cleon #4-12	5-78	58.3	5871 TVD	2395	36	2327	2571	11-15-77	- 244		954
						NOVEMBER 9, 1982					
Carpenter #2-11	11-77	31	5796	635	02	632	2327	5-30-78	-1695		539
						DECEMBER 14, 1983					
Carpenter #2-11	11-77	29	5746	581	.03	577	632	11-9-82	-55		342

REMARKS:

STATE OF MICHIGAN

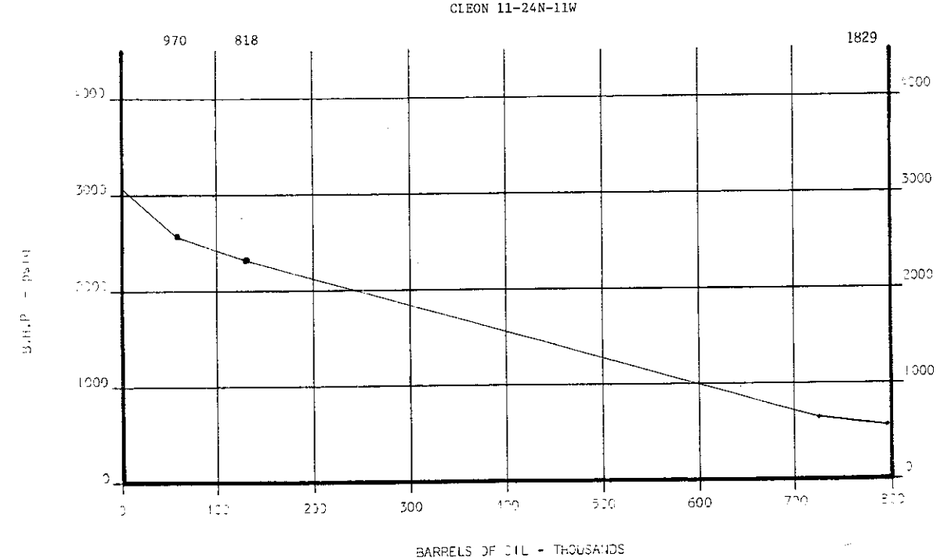
FIELD NAME BROWN 19-22N-15W COUNTY MANISTEE TOWNSHIP BROWN DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-77 VIRGIN PRESSURE 2502 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 3736 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG.
					NOVEMBER 26, 1977						
Fink #1-19	11-77	18.3	4460	2502	.10*	2502	INITIAL PRESSURE				
					JANUARY 15, 1982						
Fink #1-19	11-77	3 da	4460	2245	.18	2245	2502	11-26-77	-257	--	

* Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
CLEON 11-24N-11W

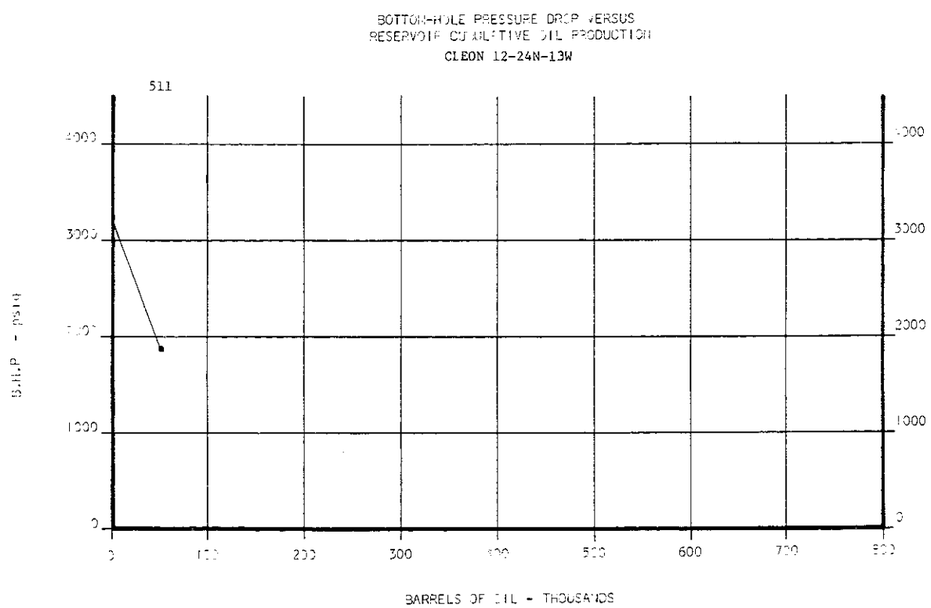


FIELD NAME CLEON 12-24N-13W COUNTY MANISTEE TOWNSHIP CLEON DATE OF TESTS

PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 10-74 VIRGIN PRESSURE 3143 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 4800 FEET CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB.	CSG.
			OCTOBER 11, 1974								
Hoekwater #1-12	10-74	93	5867	3143	.300	3143	Initial Test				
			JULY 18, 1977								
Hoekwater #1-12	10-74	72	5868	1894	.56	1893	3143	10-11-74	- 1250	541	

REMARKS:

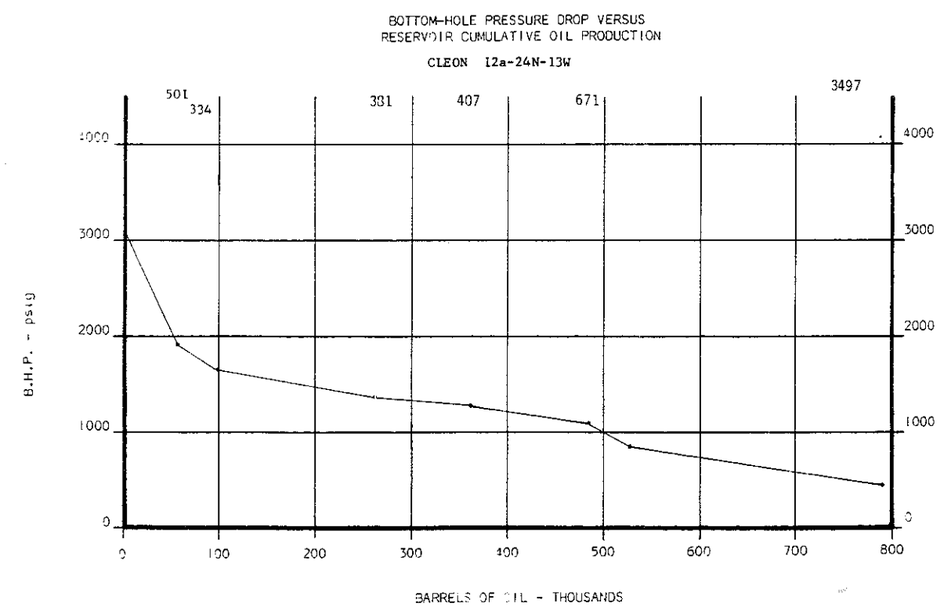


STATE OF MICHIGAN

FIELD NAME CLEON 12A-24N-13W COUNTY MANISTEE TOWNSHIP CLEON DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-75 VIRGIN PRESSURE 3083 NO PRODUCING WELLS

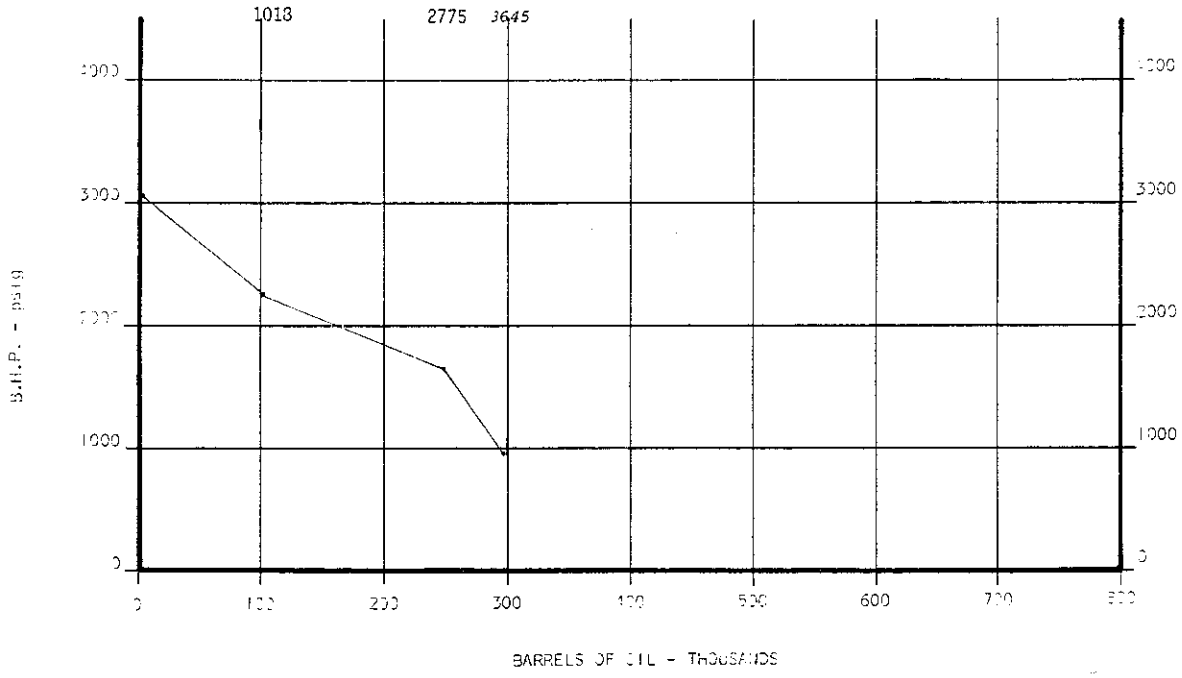
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4730 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.	CSG
					SEPTEMBER 18, 1975						
State Cleon #3-12A	9-75	46.7	5802 TVD	3083	33	3083	INITIAL TEST				
					OCTOBER 27, 1976						
State Cleon #3-12A	9-75	69.5	5806 TVD	1920	.31	1914	3083	10-18-75	- 1169	505	
					APRIL 6, 1977						
State Cleon #3-12A	9-75	34	5806 TVD	1649	.337	1648	1914	10-27-76	- 266	445	
					OCTOBER 18, 1978						
St Cleon #3-12A	9-75	34	5806IVD	1399	.30	1393	1648	4-6-77	- 255	312	Pkr
					SEPTEMBER 28, 1979						
St. Cleon #3-12A	9-75	316	5806IVD	1292	.30	1286	1393	10-8-78	- 107	327	
					OCTOBER 28, 1980						
St Cleon #3-12A	9-75	219	5806IVD	1093	.16	1090	1286	9-28-79	- 196	911	
					FEBRUARY 27, 1981						
Walters #1-1	1-82	216.5	5834	833	.033	832	1090	10-28-80	-258	695	732
					NOVEMBER 18, 1983						
St Cleon #3-12A	9-75	48	5806 TVD	412	.26	411	832	2-27-81	-421		



STATE OF MICHIGAN

FIELD NAME CLEON 13-24N-13W COUNTY MANISTEE TOWNSHIP CLEON DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-77 VIRGIN PRESSURE 3058 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 4832 FEET CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB.-CSG.
St. Cleon #4-13	11-77	67	5869	3058	NOVEMBER 7, 1977 .30	3058	INITIAL TEST			1459
St. Cleon #4-13	11-77	48.5	5869	2274	MARCH 15, 1979 .29	2268	3058	11-7-77	- 790	1282
St. Cleon #4-13	11-77	51.5	5894	1627	OCTOBER 28, 1980 .33	1611	2268	3-15-79	- 657	869
St. Cleon #4-13	11-77	24	5925	941	NOVEMBER 4, 1981 .46	905	1611	10-28-80	- 706	9
St. Cleon #4-13	11-77	29	5925	1118	NOVEMBER 22, 1983 .05	1114	NOT USED IN CALCULATIONS			

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
CLEON 13-24N-11W